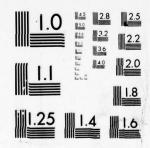


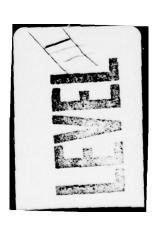
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Magellan Straits, Gulf of Penas, Valdivia, Valpar	aiso, Coquimbo and
Antofagasta	
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)	,
This report presents marine climatological data f	for specific coastal areas
in 21 different tables including weather occurrer	nce, wind direction and
speed, cloud amount, ceiling height, visibility,	precipitation, dry bulb,
relative humidity, air-sea temperature difference	e, sea height and period,
sea surface temperature and sea level pressure.	

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SYNOPTIC METEOROLOGICAL OBSERVATIONS SUMMARY OF (SSMO)

SOUTH AMERICA AND SELECTED ISLAND COASTAL MARINE AREAS WEST COAST.

VOLUME 4.

AREA 25 - MAGELLAN STRAIT WEST,
AREA 26 - GULF OF PEÑAS,
AREA 27 - VALDÍVIA,
AREA 28 - VALPARAISO,
AREA 29 - COQUIMBO,
AREA 30 - ANTOFAGASTA.



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THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C. COMMANDER, NAVAL OCEANOGRAPHY COMMAND PREPARED BY

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The SSMO series of coastal marine summaries is managed and produced by the Naval Weather Service Detachment, Asheville, N. C. for the Commander, Naval Oceanography Command. A list of published SSMO's is contained in the catalogue part of the "Guide to Standard Weather Summaries and Climatic Services", NAVAIR 50-1C-534.

The data summarized in the following tables were obtained from Tape Data Family 11 (TDF-11) Marine Surface Observations. The development and maintenance of TDF-11 was primarily funded by the Naval Weather Service Command. The source of these marine surface observations was punched cards of weather observations taken aboard vessels of varying registry. These observations were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there

is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing the data file toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and < .05. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area.

This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months. Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

<u>Table 1</u> - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Oktas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH <5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present). and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

<u>Table 8</u> - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

<u>Table 12</u> - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

1

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (°F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The Extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (衆) by Hour (GMT).

<u>Table 17</u> - Percentage Frequency of Air Temperature (°F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (°F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature (° F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

	PAGES	1-79 80-158 159-237 238-316 317-395 396-474
CONTENTS	NAME	MAGELLAN STRAIT WEST GULF OF PEÑAS VALDIVIA VALPARAISO COQUIMBO ANTOFAGASTA
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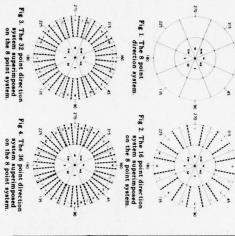
DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observation counts" may not equal

grand totals.



4 Flists	3 - 3		8		ns qual	ns 1		
NOTE:	99	98	97	96	95	94	90-93	CODE
<pre><means less="" than;="">means greater than; ≤means less than or equal to; >means greater than or equal to.</means></pre>		10≤	5	22	15	1/25		VIS
less than; greater than; less than or o; >means than or equal	VV≥25	10≤٧٧<25	5≤VV<10	2≤VV<5	15VV<2	1/2 <u><</u> vv<1	VV<1/2	IBILITY (VV) INTERPRETATION (NAUTICAL MILES)

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76-79 PRECIPITATION 87-90 HAIL 96,99 HAIL 13,17 THUNDER 19,29 THUNDERSTORM	¥,6	50-55,58-59) DRIZZLE 56-57 FREEZING 66-67 PRECIPITATION	(68-69 95, 97 IF TEMP > 40°F) 80-82, (83-84) IF TEMP > 40°F) RAIN SHOWERS	INTER	PRESI
00-49} 50-99} 20-27}	$ \begin{array}{c} 00-03 \\ 14-16 \\ 18 \end{array} $	04-05 06-09 30-39	28	10-12 40-49	60 WMO
NO PRECIPITATION AT OB TIME PRECIPITATION AT OB TIME PRECIPITATION PAST HOUR	NO SIGNIFICANT WEATHER AT OB TIME	HAZE SPRAY BLOWING DUST BLOWING SNOW	FOG (WITHOUT PRECIPITATION) PAST HOUR	FOG (WITHOUT PRECIPITATION)	CODE 4677)

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and sow); 93-94 (rain and shall); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

AS RECORDED IN TABULATION (FEET)	49-60				61-70						71-86						
RANGE (METERS)	>14.75 to 15.25 >15.25 to 15.75 >15.75 to 16.25	tot		>18.25 to 18.75	to to	to 0	>20.75 to 21.25	+		to	> 23.25 to 23.75	to	100	7 25. (5 to 26.25)	>26.25 to 49.75}		Indeterminate=INDET
RECORDED CODE (HALF METERS)	31	888	36			41	42	73	5 4 4	45	47	49	212	25	53-99		Indeter
AS RECORDED IN TABULATION (FEET)	20-22	23-25		36 39	3			33-40				41-48					
RANGE (METERS)	>5.75 to 6.25 >6.25 to 6.75	>6.75 to 7.25	3	>7.75 to 8.25 >8.25 to 8.75	to		>9.75 to 10.25		t 2		>12.25 to 12.75 >12.75 to 13.25	to	to				
RECORDED CODE (HALF METERS)	12	14	CT .	16 17	18 19		20	22	24		25 26		23				
AS RECORDED IN TABULATION (FEET)	7	1-2	3-4	5-6	t		8-9		10-11		12		13-16		17-19		
RANGE (METERS)	<.25}	>,25 to .75}	>.75 to 1.25}	>1.25 to 1.75}		(cz.z or c).15	>2.25 to 2.75}		>2.75 to 3.25}		>3.25 to 3.75}	>3 75 +0 4 95)	>4.25 to 4.75		>4.75 to 5.25 >5.25 to 5.75		
RECORDED CODE (HALF METERS)	00	01	02	03	;	04	05		90		20	æ	60		91		

PERIOD:	(PRIMARY)	1898-1978
	INVER-ALL)	1045 1070

TABLE 1

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.7W

DEDCENT	EDEDITENCY	DE	HEATHED	DECHIDACHEE	 HITAIR	DIRECTION

F. C. IPITATION TYPE											OTHER WEA HER PHENOMENA								
HND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW					
N	9.8	.0	7.3	.0	.0	.0	.0	17.1	7.3	.0	14.6	.0	.0	.0	61.0				
NE	40.0	.0	.0	.0	.0	.0	.0	40.0	.0	.0	40.0	.0	.0	.0	20.0				
E	7.7	.0	.0	.0	.0	.0	.0	7.7	11.5	.0	.0	.0	.0	.0	80.8				
SE	28.1	.0	6.3	.0	.0	.0	.0	34.4	3.1	.0	.0	.0	.0	.0	62.5				
S	10.9	.0	4.3	.0	.0		.0	15.2	8.7	.0	.0	.0	.0	.0	76.1				
SW	5.3	5.3	1.3	.0	.0	.0	.0	11.8	.0	.0	5.3	.0	.0	.0	82.9				
W	8.5	5.3	7.9	.0	.0	.0	.0	18.5	12.2	.0	.0	.0	.0		69.3				
NW	16.5	8.3	5.7	.0	.0	.0	.0	29.8	7.3	.0	8.9	.0	.0	.0	54.0				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		100.0				
TOT PCT	12.8	5.1	5.6	.0	.0	•0	.0	22.4	7.7	.0	6.1	.0	.0	.0	63.8				

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE			OTHER	MENA					
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00603 06609 12615 18621	13.5 15.6 4.3 14.1	1.9 8.9 2.2 10.9	11.5 2.2 4.3 3.1	.0	.0	.0	.0	26.9 24.4 10.9 26.6	7.7 6.7 15.2 3.1	.0	1.9 4.4 2.2 12.5	.0	.0	.0	63.5 64.4 71.7 57.8
TOT PCT	12.1	6.3	5.3	.0	.0	•0	.0	22.7	7.7	.0	5.8	•0	.0	.0	63.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KNO	TSI									(GMT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21	
N	.3	2.0	2.7	2.1	.7	. 2		7.9	18.6	6.0		6.1	7.0	7.7	29.2	9.5	7.9	
NE	.2	1.3	.9	.3	. 1	.0		2.8	12.4	1.8	.0	2.6		1.7	.0	4.0	1.9	
E	.2	1.0	.3	.1	.0	.0		1.6	9.3	1.3	.0	1.2	1.9	2.3	.0	1.7	1.1	
SE	.4	.7	.8	.2	.0	.0		2.1	10.7	3.4	20.0	1.9	1.3	2.7	.0	1.9	1.3	
S	.4	1.3	2.0	1.1	.1	.0		4.9	15.7	4,8	.0	5.6	4.3	6.0	.0	5.0	3.8	
SW	.2	3.0			. 9	. 2		16.1	18.9	19.4	.0	18.6		15.8	.0	12.8	17.9	
W	.5	3.9	12.0	9.8	4.1	. 8		31.1	21.7	29.9	35.0	29.1	30.9	36.1	25.0	30.7	31.5	
NW	.6	4.0	11.9	10.6	4.6	1.1		32.8	22.6	33.0	25.0	33.8	32.9	27.8		33.5	34.6	
VAR	.0	.0			.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	. 5					•		.5	.0	.4	.0	1.1	.4	.0	.0		.0	
TOT OBS	70	361	788	598	220	49	2086	•-	20.2	285	. 5	285	239	263	6	772	231	
TOT PCT	3.4	17.3			10,5	2.3		100.0			100.0				100.0			

TABLE 3A

	WND DIR	0-6	7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL	PCT	MEAN	00 03	06 09	12 15	18
	N	1.1	2.6	2.5	1.2	.5		7.9	18.6	6.2	6.5	8.2	9.1
	NE	. 8	1.2	.6	• 2	.0		2.8	12.4	1.8	2.5	1.7	3.6
	E	.5	.9	.1		.0		1.6	9.3	1.3	1.5	2.2	1.5
	SE	. 8	.7	,5	• 1	.0		2.1	10.7	3.7	1.6	2.6	1.8
	5	.7	2.0	1,5	• 7			4.9	15.7	4.7	5.0	5.9	4.7
	SW	1.4	4.7	7.3	2.3	.5		16.1	18.9	19.1	18.8	15.4	14.0
*	W	1.8	8.6	12.6	6.2	2.0		31.1	21.7	30.0	29.9	35.9	30.9
	NW	1.9	8.6	11.5	8.4	2.4		32.8	22.6	32.8	33.4	28.2	33.8
	VAR	.0	.0	.0	.0	.0		.0	•0	.0	.0	.0	.0
	CALM	. 5	••	• •		•••		.5	.0	.3	. 8	.0	.6
	TOT OBS	199	613	764	397	113	2086		20.2	290	524	269	1003
	TOT PCT	9.5	29.4	36.6	19.0	5.4	2000	100.0	2002		100.0		

J			

PERIOD: (PRIMARY) 1898-1978 (OVER-ALL) 1865-1978

TABLE 4

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.7W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND		34-47	48+	MEAN	PCT	TOTAL
00.03				20.4		0	2 4	20.1	100 0	
£0300	.3	3.4	17.2	38.6	25.9	11.0	3.4		100.0	290
90300	. 8	2.3	15.8	38.0	29.8	10.7	2.7	20.6	100.0	524
12615	.0	1.9	20.4	40.5	26.8	8.9	1.5	19.2	100.0	269
18621	.6	3.2	17.2	36.7	29.4	10.8	2.1	20.2	100.0	1003
TOT	11	59	361	788	598	220	49	20.2		2086
PCT	. 5	2.8	17.3	37.8	28.7	10.5	2.3		100.0	-

TARLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION MEAN								PERCEN	TAGE F	REQUEN	CY OF	OF CEILING HEIGHTS (FT,NH >4/8) OF NH <5/8 BY WIND DIRECTION											
WND DIR	0=2	3-4	5-7	8 & nBSCD	TOTAL	COVER	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL					
N	.0	1.0	2.2	5.3		7.0	.0	.0	.0	.7	5.3	1.6	.0	.0	.0	.0	1.0						
NE			.2	. 9		7.6	.7						.0			.0							
E		.0	1.7	1.7		7.1	.0		. 5				.7			.0	.5						
SE		.0	2.6						. 3				.7				. 3						
S													. 7				1.2						
SW													. 7										
W													1.2			. 5							
NW																. 2							
VAR													.0										
				.0									-				7						
	2			69	145				6			14	.6			. 0	29	145					
	1.4						. 7	3.4	4.1			9.7	4.1	2.8		7		100.0					
	WND DIR NE E SF S SW W	N 0 0 IR 0 - 2 N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N .0 1.0 NE .0 .0 E .0 .0 SF .0 .0 S .0 .0 CALM .0 .7 TOT OBS 2 17	N	BY WIND DIRECT THE CONTROL OF CON	BY WIND DIRECTION WHOD DIR 0-2 3-4 5-7 & 6 TOTAL OBSCO N	N	BY WIND DIRECTION MEAN MND DIR 0-2 3-4 5-7 86 TOTAL CLOUD 000 N	BY WIND DIRECTION MEAN MND DIR 0-2 3-4 5-7 & TOTAL CLOUD NE 0 1.0 2.2 5.3 7.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	NO 01R 0-2 3-4 5-7 8 6 TOTAL CLQUD 149 299 599 N	NO DIR 0-2 3-4 5-7 8 6 TOTAL CLOUD 000 150 300 600 180 000 1.0 2.2 5.3 7.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	NO DIR 0-2 3-4 5-7 8 5 TOTAL CLOUD 000 150 300 600 1000 180 0-2 3-4 5-7 8 5 TOTAL CLOUD 149 299 599 999 1999 1999 1999 1999 1999 1	NO DIR 0-2 3-4 5-7 % E TOTAL CLOUD 000 150 300 600 1000 2000 149 299 599 999 1999 3499 N	NAD DIR 0-2 3-4 5-7 % 6 TOTAL CLOUD 000 150 300 600 1000 2000 3500 149 299 599 999 1999 3499 4999 N	NO DIR 0-2 3-4 5-7 % & TOTAL CLOUD 000 150 300 600 1000 2000 3500 5000 149 299 599 999 1999 3499 4999 6499 N	NAD DIR 0-2 3-4 5-7 8 6 TOTAL CLOUD 000 150 300 600 1000 2000 3500 5000 6500 149 299 599 999 1999 3499 4999 6499 7999 N 0 1.0 2.2 5.3 7.0 0 0 0 0 7 5.3 1.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NO DIRECTION MEAN WHAD DIRECTION MEAN HEAN HEAN HEAN OUT 150 300 600 1000 2000 3500 5000 6500 8000+ 149 299 599 999 1999 3499 4999 6499 7999 N	NO DIR 0-2 3-4 5-7 8 6 TOTAL CLOUD 000 150 300 600 1000 2000 3500 5000 6500 8000+ NH <5/8 8 7 NH ND DIR CTIUN 149 299 599 999 1999 3499 4999 6499 7999 8000+ NH <5/8 8 149 299 599 999 1999 3499 4999 6499 7999 8000+ NH <5/8 8 149 299 599 999 1999 3499 4999 6499 7999 8000+ NH <5/8 8 149 299 599 899 1999 3499 8999 8999 8000+ NH <5/8 8 149 299 899 1999 3499 8999 8999 8999 8999 8999 8999 8					

CUMULATIVE PCT FREQ OF CEILING HEIGHT	OF (NH	SIMULT/	ANEOL	VSBY	URRENCE (NM)
,	SBY	(NM)			

				VSBY (NM)			
CFILING	 OR 	- DR	 DR 	- OR	• OR	- OR	- DR	= OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
= DR >6500	.6	.6	.6	.6	.6	.6	.6	.6
■ DR >5000	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
■ NR >3500	5.8	7.1	7.1	7.1	7.1	7.1	7.1	7.1
■ DR >2000	9.7	16.2	16.9	16.9	16.9	16.9	16.9	16.9
■ DR >1000	24.0	44.2	48.7	50.0	50.0	50.0	50.0	50.0
■ OR >600	33.1	57.8	63.6	65.6	65.6	65.6	65.6	65.6
■ DR >300	34.4	62.3	68.8	70.8	70.8	70.8	70.8	70.8
■ NR >150	34.4	64.3	72.1	74.0	74.0	74.0	74.0	74.0
- OR > 0	34.4	64.3	72.1	74.7	74.7	74.7	74.7	74.7
TOTAL	53	99	111	115	115	115	115	115

TUTAL NUMBER OF OBS1 154 PCT FREQ NH <5/81 25.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 OBSCD OBS .6 1.3 7.5 6.3 9.4 6.9 11.3 12.5 43.8 .6 160

IA	-		D	v	

								JA	NUARY								
PERIOD:	(PRIMARY) 1 (OVER-ALL) 1	898-1978 865-1978						TA	BLE 8				ARE	A 0025	MAGEL	TAN STRAI	WEST
			PE	RCENT	PREC	DF WIN	D DIRE	CTION TH VAR	VS DCC	URRENC	E OR N	IBILIT	URRENC	E OF			
	VSBY (NM)		N	NE	F	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL			
	<1/2	PCP ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
		TOT %	.0	.0	•0	•0	.0					.0					
	1/2<1	PCP NO PCP TOT \$.5	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.5				
		PCP			.0					.5			.5				
	1<2	NO PCP	.0	.5	0	.0	.0	.0	.0	1.0	.0	.0	1.0				
		PCP	.5	.0	.0	.3	.3	.1	1.1	1.8	.0	.0	4.1				
	2<5	NO PCP	1.3	.0	.5	.0	.0	.0	2.7	3.6	.0	.0	8.7				
	5<10	PCP ND PCP	1.3	.5	.3	1.1	2.8	1.0	3.3	9.2	.0	.0	17.3				
	7	TOT %	4.7	.5	1.0	2.2	3.4	2.0	8,3	20.7	.0	.0	42.9				
	10+	PCP NO PCP	4.0	.0	1.8	1.7	2.2	7.5	13.1	13.4	.0	1.0	44.9				
		TOT \$	4.0	.3	1.8	1.7	2.2	7.5	13.1	13.9	.0	1.0	45.4				

TOT PGT 10.5 1.3 3.3 4.1 5.9 9.7 24.1 40.2 .0 1.0 100.0

TABLE 9

PERCENT FRED OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0	•0	.0	.0	.0	.0	.0	.0	•0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.5	.0		.5	
	22+	.5	.0	.0	.0	.0	.0	.0	.5	.0		1.0	
	TOT %	.5	•0	•0	•0	.0	.0	.0	1.0	.0	.0	1.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.5	.0	.0	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	1.0	.0	-	1.0	
	TOT \$.0	.5	.0	.0	.0	.0	.0	1.0	.0	.0	1.5	
	0-3	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0		
2<5	4-10	.2	.0	•0	.0	.0	.1		.7	.0		1.5	
	11-21	.0	.0	.5	.0	.0	.0	2.2	.2	.0		2.9	
	22+	1.0	.0	•0	.0	.0	.0	.0	2.5	.0		3.4	
	TOT %	1.2	•0	.5	• 2	.2	.1	2.6	3.4	.0	.0	8.3	
	0-3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5		
5<10	4-10	1.2	.0	1.0	.5	.5	.5	.5	1.7	.0		5.9	
	11-21	2.3	•0	.0	1.3	2.1	1.5	4.0	7.4	.0		18.6	
	22+	1.0	.0	.0	.2	.7	.0	3.4	11.3	.0		16.7	
	TOT \$	4.5	.5	1.0	2.1	3.3	2.0	8.0	20.3	.0	.5	42.2	
	0-3	.0	.0	.0	1.0	.0	.0		.1	.0	1.0	2.5	
10+	4-10	1.5	.2	1.0	.5	1.0	2.7	2.7	1.7	.0		11.3	
	11-21	2.3	.0	.4	.5	.6	3.4	5.0	6.9	.0		19.1	
	22+	.5	.0	.4	.1	.5	3.1	4.5	4.7	.0		13.7	
	TOT \$	4.3	.2	1.7	2.1	2.1	9.2	12.6	13.4	.0	1.0	46.6	
	nT 085												204
7	nt per	10.5	1.2	3.2	4.4	5.6	11.3	23.2	39.1	.0	1.5	100.0	

JANUARY

PERIODI	(PRIMARY)	1898-1978
	(DVER-ALL)	1865-1979

TABLE 10

AREA 0025 MAGELLAN STRAIT WEST

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
00603	.0	2.4	2.4	22.0	31.7	9.8	4.9	2.4	.0	2.4	78.0	22.0	41
06609	•0	3.3	3.3	23.3	30.0	13.3	.0	3.3	.0	.0	76.7	23.3	30
12615	.0	5.3	13.2	5.3	31.6	2.6	7.9	.0	.0	.0	65.8	34.2	38
18621	2.1	2.1	2.1	14.9	36.2	12.8	2.1	4.3	.0	.0	76.6	23.4	47
PCT	.6	3.2	5.1	25	32.7	9.6	3.8	2.6	.0	1	116	25.6	156

		1	

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(NM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.0	.0	1.9	13.0	38.9	46.3	54	00803	.0	4.9	39.0	39.0	22.0	41
90360	.0	.0	.0	10.4	56.3	33.3	48	06609	.0	6.9	31.0	44.8	24.1	29
12615	.0	.0	2.1	2.1	39.6	56.3	48	12615	.0	18.4	23.7	42.1	34.2	36
18621	.0	4.6	3.1	9.2	40.0	43.1	65	18821	2.2	6.5	30.4	50.0	19.6	46
TOT	0	3	1.9	19	93	96	215	TOT	1	14	48	68	38	154

					BLC I	•									TABL	E 14				
	PERC	ENT FR	EQUENC	0 F R	LATIV	HUMI	ITY BY	TEMP	TOTAL	PCT		PERC	ENT FR	EQUENC	Y 0F W	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	•0	.6	1.2	1.2	2.4	.0	11	1.2	2:3	:6	.0	.6	1.2	.0	.0	1.4	.0	1.2
50/54	.0	.0		.6	6.1	4,8	9,7	4,2	42	25.5	3.5	.2	.9	. 3	.0	2.6	4.8	13.2	.0	.0
40/44	.0	.0		:6	1.8		9.7	13.3	36	21.8	1.8	1.2	3.0	2.9	5.0	3.2	6.4	3.6	.0	.0
PCT	.0	.0		1.2	12.7	26.1	36.4	23.6	165	100.0	8,3	2.0	3,9	5.8	7.1	12.1	22.0	37.6	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

	VI CELONDONIO	Charles and the same							
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00603	63	59	54	47	42	40	40	47,6	286
06609	58	54	52	46	41	39	37	46.6	515
12615	55	54	52	47	42	41	38	47.0	260
18621	59	56	53	48	43	40	34	47.7	974
TOT	63	56	53	47	42	40	34	47,3	2035

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR HOUR 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL 085 00609 .0 .0 5,3 26.9 39.5 26.3 84 38 126.15 .0 .0 5,9 35.3 41.2 17.6 81 34 18621 .0 3.8 17.0 18.9 37.7 22.6 81 55 707 0 3 21 46 62 39 81 171

JANUARY

PERIOD: (PRIMARY) 1898-1978 (OVER-ALL) 1865-1978

TABLE 17

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.7W

0

U

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	33	37 40	41	45	49 52	53 56	57	61	TOT	FOG	FOG
11/13	.0	•0	.0	:0	:0	.0	1.1	.5	3 9 2 9 8 12	.00	1.6
9/10	.0	•0	.0	.0	.0	2	1.1	.0	,	.0	1.6
7/8	.0	.0	.0	.0	.5	3.7	.5	.0			4.7
6	.0	.0	.0	.0	.0	1.1	.0	.0	2	.0	1.1
5	.0	.0	.0	.0	2.1	2.6	.0	.0	9	.5	4.2
4	.0	.0	.0	.5	2.1	1.6	.0	.0	8	5	3.7
3 2	.0	.0	.0	.5	4.2	1.6	.0	.0	12	.0	6.3
2	.0	.0	.0	3.7	5.3	.0	.0	.0	17	1.1	7.9
1	.0	.0	.0	4.2	4.2	.5	.0	.0	17	1.6	7.4
1 0	.0	.0	1.6	7.9	4.2	.5	.0	.0	27	.0	14.2
-1	.0	.0	1.6	8.9	3.7	.0	.0	.0	27	.5	13.7
-2	.5	.5	2.1	6.3	2.1	.5	.0	.0	23	1.1	11.1
-3	.0	.0	3.7	3.2	.5	.0	.0	.0	14	.5	7.4
-4	.0	.5	2.1	1.6	.0	.0	.0	.0	8	.5	3.7
-5	.0	.0	1.6	1.1	.0	.5	.0	.0	6	.0	3.2
-6	.0	.5	1.1	.5	.0	.0	.0	.0	8 6 4	. 5	1.6
-7/-8	.0	.0	.0	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	1		26		55		5			12	178
		3		74		25		1	190		
PCT	.5	1.6	13.7	38.9	28.9	13.2	2.6	.5	100.0	6.3	93.7

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) 11-21 .9 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 1-3 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 23-40 41-48 49-60 61-70 71-86 71-86 1-3 48+0.00.00.00.00.00.00.00 34-47 HGT
<1
1-2
3-4
5-6
7
8-9
10-11
12
13-16
17-19
23-25
26-32
33-40
41-48
49-60
61-70
71-86
87+
TOT PCT 1-3 4-10 1-3

PERIOD	COVER	-ALL)	1963-1	978					JANUARY				AREA	0025	MAGELLA	N STRAIT
								TABLE	18 (CON.	1)				54.		
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIR	CTION	VERSUS S	EA HEIG	HTS (FT)			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0		.0		.0	.2			.0	.0		
1-2		.0		.0	.0	.0	.0		.9	.9		.0	:0	.0	1.8	
3-4	.0	.0	:0	.0	.0	.0	.0		.0	.0	.9	.9	:0	.0	1.8	
5-6	.0	.0	:7	.7	.0	.0	1.4		.0	1.8		1.8	.0	.0	6.3	
7	.0	.0	:0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
8-9	.0	.0		.7	.0	.0	1,6		.0	.0		.2	.0	.0	1.1	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0		.9	.0	.0	.,9	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	· c	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	. 0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	,0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
OT PCT	.0	.0	1.6	1.4	.0	.0	2.9		, 9	2.9	4.5	3.8	.0	.0	12.2	
HGT	1-3	4-10	11-21	W 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.7	.0	.0	.0	.0	.7		.0	.9		.0	.0	.0	.9	
1-2	.7	.0	.0	.0	.0	.0	.7		.2	1.1		.0	.0	.0	5.4	
3-4	.0	.0	2.7	.9	.0	.0	3.6		.0	.0		1.8	.0	.0	3.6	
5-6	.0	.0	4.7	2.7	.0	.0	7.4		.0	.0		9.0	. 9	.0	13.5	
7	.0	. 9	4.1	4.3	.0	.0	9.2		.0	. 9		7.4	.0	.0	12.4	
8-9	.0	.0	.0	1.4	, 9	.0	2.3		.0	.0		1.1	.0	.0	1.1	
10-11	.0	.0	.0	2.5	.0	.0	2.5		.0	.0		1.1	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.9	.0	.9	
20-22	.0	.0	.0		.0	.0	.0		.0	.0		.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
		.0	.0	.0	.0	.0	.0		.0	.0		.0	,0	.0	.0	
									.0	.0		.0	.0	.0		
49-60	.0		. 0	.0	.0	-0	. 0									
49-60 61-70	.0	.0		.0	.0	.0	.0						.0		.0	
49-60			.00	.0	.0	.0	.0		.0	.0	.0	.0	0 0 1 8	.0	.0	

WEST

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.7	2.7	.0	.0	.0	.0	5.4	463
1-2	1.8	0.3	8.1	.0	.0	.0	16.2	
3-4	.0	, 9	5.4	3.6	.0	.0	9,9	
5-6	.0	1.8	14.4	15.3	.9	.0	32.4	
7	.0	1.8	8.1	11.7		.0	21.6	
8-9	.0	.0	1.8	3.6		.0	6.3	
10-11	.0	.0	.0	6.3		.0	6.3	
12	.0	.0	.0	.0		.0	,9	
13-16	.0	.0	.0	.0		.0	.0	
17-19	.0	.0	.0	.0		.0	. 9	
20-22	.0	.0	.0	.0		.0	.0	
23-25	.0	.0	.0	.0		.0	.0	
26-32	.0	.0	.0	.0		.0	.0	
33-40	.0	.0	•0	.0		.0	.0	
41-48	.0	.0	.0			.0	,0	
49-60	.0	.0	.0	.0		.0	.0	
61-70	.0	.0	.0			.0	.0	
71-86	.0	.0	.0			.0	.0	
87+	.0	.0	.0	.0			.0	
		• • • • • • • • • • • • • • • • • • • •					•	111
TOT PCT	4.5	13.5	37.8	40,5	3.6	.0	100.0	

PERIO	D: (DV	ER-ALL	195	9-1978					TABLE	19											
					PERCEN	T FRE	OUENCY	OF WA	VE HE !!	GHT (F	T) VS	WAVE P	ERIOD	(SECON	0\$1						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
₹6 6-7	3.1	7.0	3.1	7.8	5.5	1.6		3.1		1.6	.0	.0	.0	.0		.0		.0	.0	53	6
6-7	.0	.0	2.3	. 8	3.9	3.9	1.6	3.1			. 8	.0	.0	.0	.0	•0		.0	.0	25	10
8-9	.0	.0	.0	. 8	2.3	6.3		2.3		1,6	1.6		.0	.0		.0		.0	.0	25	10
10-11	.0	.0	.0	.0	. 8	.0	1.6	.8	.0	, 6	• 0	.0	.0	.0	.0	.0	.0	.0	.0	,	11
12-13	.0	.0	.0	. 8	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	2.3	4.7	.0	. 8	1.6	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
TOTAL	7	15	7	14	19	19	16	12	11	5	3	0	0	0	0	0	0	0	0	128	
PCT	5.5	11.7	5.5	10.9	14.8	14.8	12.5	9.4		3.9	2.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1904-1978 (OVER-ALL) 1870-1978

TABLE 1

AREA 0025 MAGELLAN STRAIT WEST 53.88 73.9W

PERCENT	FREQUENCY	DE	WEATHER	DCCURRENCE	RY	WIND	DIRECTION

					ENCEN	FREUC	ENCT	P WEATHER	DCCOWENCE		NO DIK	EC 1.0"			
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WNU DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	9.5	2.4	14.3	.0	.0	.0	.0	26.2	13.1	.0	11.9	4.8	.0	.0	44.0
NE	33.3	.0	22.2	.0	.0	.0	.0	55.6	.0	.0	.0	.0	.0	.0	44.4
E	11.1	.0	22.2	.0	.0		.0	33.3	.0	.0	.0	.0	.0	.0	66.7
SE	3.7	.0	.0	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0		96.3
S	17.5	10.0	.0	.0	.0	.0	.0	27.5	.0	.0	.0	.0	.0		72.5
SW	7.4	14.8	7.4	.0	.0	.0	.0	29.6	.0	.0	.0	.0	.0	.0	70.4
W	13.2	7.1	1.9	.0	.0	.0	.9	23.1	7.1	.0	.0	.0	.0	.0	69.8
NW	5.5	14.2	3.7	.0	.0	.0	.9	24.2	8.2	.0	13.7	.0	.0		53.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0		.0	.0	•0	.0	.0	.0	.0		100.0
TOT PCT	10.1	8.9	5.3	.0	.0	•0	.6	24.9	6.5	.0	5.9	.6	.0	.0	62.1

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			F	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HUUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	6.8 8.7 9.8 14.0	4.5 15.2 7.3 7.0	9.1 4.3 7.3 2.3	.0	.0		.0 .0 2.4 .0	20.5 28.3 26.8 23.3	4.5 4.3 9.8 7.0	.00	4.5 8.7 4.9 4.7	.0 .0 2.4	.0	.0	70.5 58.7 56.1 65.1
TOT PCT	9.8	8.6	5.7	.0	.0	•0	.6	24.7	6.3	.0	5.7	.6	.0	.0	62.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			22-33		48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21
N	.3	1.3	1.8	1.8	.9	.1		6.1	20.4	4.6		7.2	6.4	4.6	.0	7.6	4.1
NE	.1	.6	.7	.5		.0		1.9	14.4	1.8	•0	3.1	1.6	2.0	.0	1.4	1.9
E	. 3	.4	.4	*	• 1	.0		1.2	10.2	1.1	.0	.4	1.2	1.0	.0	2.0	. 8
SE	.3	1.2	.5	.3	• 1	.0		2.3	11.3	2.6	16.7	2.2	2.0	2.1	8.3	2.4	2.1
S	.5	1.7	1.5	1.1	.2	.2		5.2	16.0	6.0	16.7	6.9	5.1	4.3	8.3	4.5	4.7
SW	.7	3.5	6.7	4.0	3.0	. 7		18.6	21.3	17.8	8.3	23.5	24.3	19.0	.0	14.8	17.8
W	. 8	4.8	12.4	9.3	4.8	1.5		33.6	22.2	35.5	25.0	28.8	33.2	34.4	33.3	33.9	36.0
NW	.6	3.9	10.9	9.6	4.0	1.3		30.2	22.7	30.1	20.8	27.4	25.4	31.0		32.3	32.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0
CALM	. 8							. 8	.0	.4	.0	.7	. 8	1.6	.0	1.0	.0
TOT DBS	80	322	643	490	242	71	1850		21.0	269	6	276	237	254	6	595	207
TOT PCT	4.3	17.4	34.9	26.5	13.1	3,8		100.0			100.0				100.0		

WND DIR	0-6	7-16	SPEED 17-27		41+	TOTAL OBS	PCT	MEAN SPD	00	06 09	12 15	18 21
N_	1.1	1.3	2.1	1.3	:0		6.1	20.4	4.8	6.8	4.5	6.7
NE	.4	. 8		.2			1.9	14.4	1.7	2.4	1.9	1.6
E	.5	.5	.2	.1	.0		1.2	10.2	1.1	.7	1.0	1.7
SE	.9	.9	.5	.1	.1		2.3	11.3	2.9	2.1	2.2	2.3
5	1.0	2.1	1.3	.5	.2		5.2	16.0	6.3	6.0	4.4	4.6
SW	2.0	5.6	5.4	3.7	1.9		18.6	21.3	17.6	23.8	18.6	15.6
W	2.4	9.5	11.8	6.6	3.2		33.6	22.2	35.3	30.8	34.4	34.4
NW	1.4	8.2	11.1	6.5	3.1		30.2	22.7	29.9	26.5	31.4	32.4
VAR	.0	.0	. 0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	. 8			•••			. 8	.0	.4	. 8	1.5	.7
TOT OBS	194	536	605	350	165	1850	•••	21.0	275	513	260	802
POT OCT	10 .	20 0	22 7	10.0		•	100 0			100.0		

FF	RD	LIA	RY	

PERIOD:	(PRIMARY) (DVER-ALL)	1904-197 1870-197						TABLE 4				AREA	0025 MAGE 53.85	LLAN STRAIT 73.9W	WEST
				PER	CENTAGE	FREQUE	NCY OF	WIND SP	EED BY	HOUR	(GMT)				
		HOUR	CALM	1-3	4-10		SPEED 22-33		48+	MEAN	PCT	TOTAL			
		00203	.4	3.1	22.2	36.4	21.8	12.0	4.7		100.0	275 513			
		18421	1.5	4.0	17.7	36.2	28.8	15.3	3.1	21.6	100.0	260 802			
		PCT	15	3.5	17.4	34.9	26.5	13.1	3.8	21.0	100.0	1850			

			1	ARLE 5								TA	BLE 6					
P	BY WIND DIRECTION MEAN								PERCEN	TAGE F	REQUEN	CY OF	CEILIN NH <5/	G HEIG	HTS (IRECTI	4/8) N	
WND DIR	0=2	3-4	5-7	8 & 08500	TOTAL		149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/B	TOTAL
N NE	2.3	.8	4.2	6.5		7.6	.8	.8	1.3	1.5	2.1	1:7	:6	.0	.0	.0	6.3	
E SP	.0	.0	.0	4.8		8.0 7.8	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	
S	.0	. 8	3.1	4.4		6.9	.0	.0	.0	2.3	.0	2.9	.0	.0	.0	.0	3.1	
W	.0	2.9	16.0	14.4		6.9	1.5	.0	.0	8.3	5.2	7.9	. 8	1.3	. 8	.0	7.5	
VAR	1.0	2.5	11.5	11.3		.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	7.5	
TOT DBS	.8	10	47	58	120		•0	•0	.0	27	18	27	.0	.0	.0	.0	35	120
	WND DIR NEESS SWWNW	NND DIR 0-2 N 2.3 NE .0 E .0 SE .0 S .0 SN .0 NN 1.0 VAR .0 CALMS .5 TOT OBS .5	N 2.3 .8 NE .0 .0 E .0 .0 SE .0 .0 SS .0 .8 SN .0 1.3 NH 1.0 2.5 VAR .0 .0 CALM .8 .0 TOT 70BS 5 10	PCT FREW DF TOTAL (BY WIN) WND DIR 0-2 3-4 5-7 N 2.3 .8 4.2 NE 0 0 0 .0 SE 0 0 0 .0 SE 0 0 .0 .8 3.1 SW 0 1.3 2.7 W 0 2.9 10.0 NW 1.0 2.5 11.5 VAR 0 0 0 0 CALM 8 0 0 0 TOT OBS 5 10 47	BY WIND DIRECT NO. 2.3 .8 4.2 6.5 NE 0.0 .0 .8 1.7 E 0.0 .0 .8 4.8 SE 0.0 .0 .8 3.1 4.6 NE 0.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PCT FREQ OF TOTAL CLOUD AMOUNT BY WIND DIRECTION WND DIR 0-2 3-4 5-7 8 TOTAL CBSS N 2.3 .8 4.2 6.5 NE .0 .0 .8 1.7 E .0 .0 .8 1.7 E .0 .0 .8 3.1 4.4 S .0 .8 3.1 4.4 S .0 .0 .3 2.7 4.6 H .0 2.9 16.0 14.4 NW 1.0 2.5 11.5 11.7 VAR .0 .0 .0 .0 CALM 8 .0 .0 .0 .0 TDT DBS 5 10 47 58 120	PCT FREW OF TOTAL CLOUD AMOUNT (EIGHTMS) BY WIND DIRFCTION WHAD DIR 0-2 3-4 5-7 8 TOTAL CLOUD NE 0 0 0 8 1.7 7.6 E 0 0 0 8 1.7 7.6 E 0 0 0 8 1.7 7.8 S 0 0 8 3:1 4.4 6.9 S 0 0 1.3 2.7 4.6 6.8 H 0 2.9 16.0 14.4 6.9 NH 1.0 2.5 11.5 11.7 6.6 VAR 0 0 0 0 0 0 0 0 CALM 8 0 0 0 0 0 0 0 TOT DBS 5 10 47 56 120 6.7	PCT FREW OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRFCTION WHO DIP 0-2 3-4 5-7 8 6 TOTAL CLOUD NEAN NE .0 .0 .8 1.7 7.6 .0 E .0 .0 .8 1.7 7.6 .0 E .0 .0 .8 3.1 4.4 0.9 .0 SS .0 .8 3.1 4.4 0.9 .0 SN .0 1.3 2.7 4.6 0.8 .0 NH .0 2.9 16.0 14.4 0.9 1.5 NH 1.0 2.5 11.5 11.7 5.6 22 VAR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 CALM .8 .0 .0 .0 .0 .0 .0 .0 .0 .0 TOT OBS 5 10 47 58 120 6,7 3	PCT FREW DF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRFCTION MND DIR 0-2 3-4 5-7 8 TOTAL CLOUD OBS COVER 149 299 N 2.3 .8 4.2 6.5 6.0 8 8.8 NE .0 .0 .8 1.7 7.6 .0 .0 E .0 .0 .8 1.7 7.6 .0 .0 SE .0 .0 .8 3.1 4.4 6.9 .0 .0 SN .0 1.3 2.7 4.6 6.9 .0 .0 NM 1.0 2.9 16.0 14.4 6.9 1.5 .0 NM 1.0 2.5 11.5 11.7 6.6 .2 .0 VAR .0 .0 .0 .0 .0 .0 .0 CALM 8 .0 .0 .0 .0 .0 .0 .0 CALM 8 .0 .0 .0 .0 .0 .0 .0 .0 TOT DIRS 5 10 47 58 120 6.7 3 1	PCT FREW DF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRFCTION MEAN WND DIR 0-2 3-4 5-7 8 C TOTAL CLOUD OBS CDVER N 2.3 .8 4.2 6.5 6.0 .8 8.8 1.3 NE 0 0.0 .8 1.7 7.6 0.0 0.0 0.0 E 0 0 0.0 .0 .4 8.0 0.0 0.0 0.0 SE 0 0.0 .8 3.1 4.4 6.9 0.0 0.0 0.0 S 0 0 .8 3.1 4.4 6.9 0.0 0.0 0.0 S 0 0 1.3 2.7 4.6 6.9 0.0 0.0 0.0 M 0 2.9 16.0 14.4 6.9 1.5 0.0 NH 1.U 2.5 11.5 11.8 6.6 .2 0.0 0.0 CALM 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PCT FREW DF TOTAL CLUUD AMOUNT (EIGHTHS) BY WIND DIRFCTION MEAN WND DIR 0-2 3-4 5-7 8 6 TOTAL CLOUD 149 299 599 999 N 2.3 .8 4.2 6.5 6.0 8.8 .8 1.3 1.5 NE .0 .0 .8 1.7 7.6 .0 0.0 .0 .0 .0 .0 E .0 .0 .0 .8 1.7 7.6 .0 0.0 .0 .0 .0 .0 SSE .0 .0 .8 4.8 7.8 .0 .0 .0 .0 .8 SSE .0 .0 .8 3.1 4.4 6.9 .0 .0 .0 4.8 S .0 .8 3.1 4.4 6.9 .0 .0 .0 2.3 SN .0 1.3 2.7 4.6 6.8 .0 .0 .0 .0 .0 .0 .0 N 1.0 2.9 16.0 14.4 6.9 1.5 .0 .0 .0 1.0 NN 1.0 2.9 16.0 14.4 6.9 1.5 .0 .0 .0 .0 .0 CALM 8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PCT FREW DF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRFCTION WEAN WND DIR 0-2 3-4 5-7 8 6 TOTAL CLOUD DBS CDVER NE 0 0 0 8 1.7 7.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PCT FREW DF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRFCTION MEAN MEAN NE 0 0 0 8 1.7 7.6 0 0 0 0 1.7 E 0 0 0 0 1.7 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PCT FREW DF TOTAL CLOUD AMOUNT (EIGHTMS) BY WIND DIRFCTION MEAN MEAN NE 0 0 0 8 1.7 7.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PCT FREW OF TOTAL CLOUD AMOUNT (EIGHTMS) BY WIND DIR CTION MEAN WND DIR 0-2 3-4 5-7 8 6 TOTAL CLOUD COVER 149 299 599 999 1999 3499 4999 6499 N 2.3 .8 4.2 6.5 6.0 .8 .8 1.7 7.6 .0 .0 .0 .0 .1.7 .0 .0 .0 .0 .0 .1.7 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PCT FACU DF TOTAL CLOUD AMOUNT (EIGHTHS) NND DIR NND DI	PET FREW DF TOTAL CLOUD AMOUNT (EIGHTHS) NND DIR 0-2 3-4 5-7 8 TOTAL CLOUD OBS COVER 149 299 599 999 1999 3499 4999 6499 7999 N 2.3 .8 4.2 6.5 6.0 8.8 1.7 7.6 0.0 0.0 0.0 0.0 1.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	PCT FREW DF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRFCTION MEAN WEAN NEAN 149 PERCENTAGE FREQUENCY OF CEILING MEIGHTS (FT,NH >4/8) NEAN NEAN 149 149 149 149 149 149 149 14

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING MEIGHT (NN >4/8) AND YSBY (NM)

					VSBY (NH				
	CFILING	- OR	- QR	- OR	- OR	• OR	• OR	• OR	= OR
	(FEET)	>10	25	>2	>1	>1/5	>1/4	>50YD	>0
	R >6500	.0	.8	.8	.8	.8	.8	.8	.8
	R >5000	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	R >3500	4.1	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	K >2000	13.8	25.2	8.65	26.8	26.8	8.65	26.8	26.8
	K >1000	17.9	36.6	39.8	41.5	41.5	41.5	41.5	41.5
	R >600	26.8	56.1	60.2	63.4	63.4	63.4	63.4	63.4
	K >300	27.6	58.5	63.4	66.7	66.7	66.7	66.7	66.7
	R >150	27.6	58.5	63.4	67.5	67.5	67.5	67.5	67.5
	R > 0	27.6	60.2	65.0	69.1	69.9	69.9	69.9	69.9
	TOTAL	34	74	80	85	86	86	86	86
		17. 7			7.7				
	OTAL NUMB		51 12	2			NH <5/81	30.1	

TABLE 7A
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTMS)

0 1 2 3 4 5 6 7 8 08SCD 08S 3.1 2.3 8.5 8.5 7.0 5.4 16.3 10.9 35.7 2.3 129

0 0

F	F	A	R	u	Δ	R	Y	

							FEB	RUARY							
(PRIMARY) 1 (OVER-ALL) 1	904-1978 870-1978						TA	BLE 8				ARE	4 0025 MAGE	TAN STRAIT	WEST
		,	PERCENT	FREC PREC	DF WIN	D DIRE	CTION TH VAR	VS DC	URRENC	E OR N	IBILI'	URRENC	E DF		
VSBY (NM)		N	NE	F	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL		
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. U			
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	TOT #	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
1/2<1	NO PCP	1.2	.0	.0	.0	.0	.0	.6	1.2	.0	.0	3.0			
	TOT %	1.2	.0	.0	.0	.0	.0	. 6	1.2	.0	.0	3.0			
	PCP	1.5	.0	.0	. 0	-0	- 6	.0	.9	.0	.0	3.0			
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6			
	TOT %	1.5	.0	.0	.0	.0	.6	.6	. 9	•0	.0	3.0			
	PCP	.3	.0	.0	.0	-0	.6	.0	.9	.0	.0	1.8			
2<5	NO PCP	.6	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.8			
-	TOT \$.9	.0	.0	.0	.0	.6	.6	1.5	.0	.0	3.6			
	PCP	.9	.9	.9	.1	1.0	1.2	6.1	5.5	.0	.0	16.6			
5<10	NO PCP	2.1	.0	.6	1.5	2.7	.7	8.0	14.6	.0	.0				
	TOT %	3.0	.9	1.5	1.6	3.7	1.9	14.1	20.1	.0	.0	46.7			
	PCP	.6	.6	.0	.0	.6	.0	1,2	.6	.0	.0	3.6			
10+	NO PCP	5.3	1.2	1.2	2.4	1.6	4.9	14.3	8.1	.0	.6	39.6			
	TOT \$	5,9	1.8	1.2	2.4	2.2	4.9	15.5	8.7	.0	.6	43.2			
	TOT DBS												169		
	TOT PCT	12.4	2.7	2.7	4.0	5,9	8.0	31.4	32.4	.0	.6	100.0			

TABLE 9

									VISIBIL		ED		
VSBY (NM)	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT #	.0	•0	•0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/241	4-10	.0	•0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.6	.0	.0	.0	.0	.0	.0	.0	.0		.6	
	22+	.6	.0	.0	.0	.0	.0	.6	1.2	.0		2.4	
	TOT *	1.2	.0	.0	.0	.0	.0	.6	1.2	.0	.0	2.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.6	.0	.0	.0	.0	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.6	.0	.0		,6	
	22+	.9	.0	.0	.0	.0	.6	.0	. 9	.0	4 2	2.4	
	TOT \$	1.5	•0	.0	.0	.0	.6	.6	.9	.0	.0	3.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
245	4-10	.0	.0	.0	.0	.0	.0	.6	.0	.0		.6	
	11-21	.6	.0	•0	.0	.0	.6	.0	.6	.0		1.8	
	22+	.3	.0	.0	.0	.0	.0	.0	. 9	.0		1.2	
	TOT %	.9	•0	•0	•0	•0	.6	.6	1.5	.0	.0	3.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	.6	.0	.0	.0	.6	.3	.6	. 3	.0		2.4	
	11-21	1.5	.6	1.2	• 1	1.6	1.5	8.1	10.7	.0		25.3	
	22+	.9	.3	.3	1.5	1.5	1	5.9	9.0	.0		19.4	
	TOT \$	2.9	.9	1.5	1.6	3.7	1.9	14.6	20.0	.0	.0	47.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
10+	4-10	.6	1.2	.6	.6	1.2	1.9	3.7	2.1	.0		11.8	
	11-21	2.2	.6	.6	1.2	1.0	2.9	10.9	4.7	.0		24.1	
	22+	3.1	.0	.0	.6	.0	.0	9	1.9	.0		6.5	
	TOT %	5.9	1.8	1.2	2.4	2.2	4.9	15.4	8.7	.0	.6	42.9	
	nT 085												170
T	nt per	12.4	2.6	2.6	4.0	5.9	7.9	31.8	32.2	.0	.6	100.0	

			٧

PERIOD: (PRIMARY) 1904-1978 (DVER-ALL) 1870-1978

TABLE 10

AREA OO25 MAGELLAN STRAIT WEST

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	2.7	2.7	5.4	21.6	10.8	21.6	2.7	2.7	2.7	.0	73.0	27.0	37
90300	3.6	.0	3.6	7.1	28.6	17.9	.0	.0	.0	.0	60.7	39,3	28
12615	3.0	.0	3.0	27.3	15.2	27.3	3.0	3.0	.0	.0	81.8	18.2	33
18621	.0	.0	•0	30.8	3.8	19.2	3.8	.0	.0	.0	57.7	42.3	26
TOT	3	1		27	18	27	3	. 2	1	0	86	38	124

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(MM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	.0	6.8	9.1	36.4	47.7	44	00803	2.7	10.8	37.8	35.1	27.0	37
06609	•0	4.3	4.3	.0	54.3	37.0	46	90360	3,6	7.1	17.9	42.9	39.3	26
12615	•0	2.4	2.4	2.4	46.3	46.3	41	12815	3.1	6.3	40.6	43,8	15.6	32
18621	•0	4.5	.0	2.3	52.3	40.9	44	18821	.0	.0	34.6	23.1	42.3	26
TOT	.0	2.9	3,4	3.4	83 47.4	75	175	TOT	2,4	6.5	33.3	36,6	37 30.1	123

TABLE 13

TABLE 1

					Wafr	•														
	PERCI	ENT FR	EQUENC	0 F R	ELATIVE	E HUMI	DITY BY	Y TEMP	TOTAL	PCT		PERC	ENT FR	EQUENC	OF W	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0		.6	.6	.0	.6	.0	.0	3	1.8	.6	.0	.0	.0	.0	.6	.0	.0	.0	.6
	.0	.0	.0	.6	.6	.6	.0	.6	4	2.4	.4	.0	.0	. 0 .	.0	.0	1.5	.4	.0	.0
50/54	.0	.0	.0	1.8	1.2	6.5	7.1	7.6	41	24.1	3.7	.0	.0	.0	.4	2.8	10.4	6.8	.0	.0
45/49	.0	.0	.0	1.2	4.1	14.7	15.9	25.9	105	61.8	4.7	2.1	1.5	1.6	3.7	3.1	19.3	25.9	.0	.0
40/44	.0	.0	.0	.0	.6	2.4	2.4	4.7	17	10.0	.6	.0	.6	1.2	.0	1.0	5.3	1.3	.0	.0
TOTAL	0	0	1	7	11	42	43	66	170	100.0										
PCT	.0	.0	.6	4.1	6,5	24.7	25.3	38.8		-	10.0	2.1	2.1	2.8	4.1	7.5	36.5	34.4	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	61	57	53	47	41	38	37	47.1	272
06809	60	54	52	46	41	39	38	46.1	512
12815	62	55	53	47	41	39	36	47.2	256
18821	61	58	54	48	43	40	38	48.0	772
TOT	62	57	52	47	41	30	34	47.2	1812

TABLE 16

QUR 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL GRT) 085 0803 .0 7.0 7.0 30.2 25.6 30.2 82 43 6609 .0 2.1 2.1 20.8 29.2 45.8 86 48 2215 .0 8,6 8,6 25.7 25.7 31.4 82 35 8221 .0 2.1 8.5 25.5 21.3 42.6 85 47

0 0

FEBRUARY

PERIOD: (PRIMARY) 1904-1978 (DVEK-ALL) 1870-1978

TABLE 17

AREA 0025 MAGELLAN STRAIT WEST

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIRESEA	41	45	49	53	57	61	TOT	W	WD
THP DIF	44	48	52	56	60	64		FOG	FUG
11/13	.0	.0	.0	.0	.6	.0	1	.0	.6
9/10	.0	.0	.0	.0	.0	.6	1	.0	.6
7/8	.0	.0	.0	.6	.0	.6	2	.0	1.2
6	.0	.0	1.9	.6	.0	.6	5	.0	3.1
5	.0	.0	.6	1.9	. 6	.0	5	.0	3.1
5	.0	1.9		2.5	.0	.0	2 5 5	.0	6.2
3	.0	1.9		4.9	.0	.0	17	1.9	8.6
3 2	.0	4.3	1.2	.0	.0	.0	9	.0	5.6
1	.0	7.4	4.9	.6	.0	.0	21	1.9	11.1
0	.6	4.9	3.1	.0	.0	.0	14	1.2	7.4
-1	2.5	9.9	2.5	.6	.0	.0	25	.6	14.8
-2	.0	6.2	.0	.0	.0	.0	10	.0	6.2
-3	.0	6.2	1.2	.0	.0	.0	12	.6	6.8
-4	.6	3.7	.0	.0	.0	.0	-7	.0	4.3
-5	1.2	3.1	.0	.0	.0	.0	7	.0	4.3
-6	1.2	2.5	.0	.0	.0	.0	6	.0	3.7
-7/-8	2.5	1.9		.0	.0	.0	A	.0	4.9
-9/-10	1.2	.0	.0	.0	.0	.0	8 2	.0	1.2
TOTAL	16	••	35		2		_	10	152
	10	87		19	-	3	162	-0	***
PCT	9.9		21.6	11.7	1.2	1.9	100.0	6.2	93.8

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) NE 22-33 34-47 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 34-48 49-60 61-70 71-86 87-CT 1-3 1-3 48+ 34-47 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 23-25 24-32 33-40 41-48 49-60 61-70 71-86 1-3 22-33 1-3 11-21

		FEBRUARY	
PERIOD: (OVER-ALL)	1903-1976	TABLE 18 (CONT)	AREA 0025 MAGELLAN STRAIT WEST 53.85 73.9W
		DET EDEC DE MINO SPEED (MIS) AND DIRECTION VERSUS SEA HEIG	HTC (FT)

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	TION	VERSUS S	EA HEIG	HTS (FT)			
				5								22-33				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	1.3	.0	.0	.0	1.3		.0	.0	.4	.0	.0	.0	.4	
1-2	.0	.0	1.3	.0	.0	.0	1.3		.0	1.8	1.8	.0	.0	.0	3.5	
3-4	.0	.0	1.8	.0	.0	.0	1.8		.0	.4	3.9	.0		.0	4.4	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	1.8	.0		.0	1.8	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0	
TOT PCT	.0	.0	4.4	.0	.0	.0	4.4		.0	2.2	7.9	.0	.0	.0	10.1	
												NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10		22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
1-2	.0	1.8	4.8	.0	.0	.0	6,6		.0	3.5	.4	.0	.0	.0	3.9	
3-4	.0	3.1	1.3	.0	.0	.0	4.4		.0	.0		.0	.0	.0	1.8	
5-6	.0	.0	6.6	.0	.0	.0	6.6		.0	.0		.4	.0	.0	6.1	
7	.0	.0	.0	.0	.0	.0			.0	.0		5.3	1.8	.0	11.0	
8-9	.0	.0	.0	7.9	4.4	.0	16.3		.0	.0		1.3	4.4	.0	5.7	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
12	.0	.0	40	3.1	.0	.0	3.1		.0	.0		.4	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0		.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0		.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.8	12.7	11.0	4.4	.0	32.9		.0	3,5	11.8	7.5	0 0 0	.0	28.9	100.0

	WIND	SPEED	(KT5)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	3,5	3.5	.0	.0	.0	7.0	403
1-2	.0	10.5	10.5	.0	.0	.0	21.1	
3-4	.0	3,5	10.5	1.8	.0	.0	15.8	
5-6	.0	.0	15.8	1.8	.0	.0	17.5	
7	.0	.0	5.3		1.8	.0	12.3	
8-9	.0	.0	.0		8.8	.0	21.1	
10-11	.0	.0	,0		.0	.0	.0	
12	.0	.0	.0		1.8	.0	5.3	
13-16	.0	.0	.0		.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	. 0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0		.0	.0	.0	
33-40	.0	.0	.0		.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0				.0	.0		
		.0	.0		.0	.0	.0	
87+	.0	.0	.0	.0		•0	.0	
								57
TOT PCT	.0	17.5	45.6	24.6	12.3	.0	100.0	

PERIOD	: (OV	ER-ALL)	195	0-1978					TABLE	19											
					PERCENT	FRE	DUENCY	OF WAY	/E HE I	SHT (F	T) VS	HAVE P	ERIOD	SECON	(20						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6_	.0	15.8	2.1	1.1	3.2	2.1	3.2	9.5	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	35	6
6-7	.0	1.1	3.2	.0	1.1	6.3	3.2	.0	.0	6.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	21	10
8-9	.0	.0	.0	.0	3.2	1.1	7.4	1.1	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	10
8-9 10-11	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	4	16
12-13	.0	.0	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	3	16
>13	.0	.0	.0	1.1	.0	1.1	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		11
INDET	5.3	1.1	2.1	2.1	.0	1.1	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
TOTAL	5	17	7		7	11	15	13	6	6	3	0	1	0	0	0	0	0	0	95	8
PCT	5.3	17.9	7.4	4.2	7.4	11.6	15.8	13.7	6.3	6.3	3.2	.0	1.1	.0	.0	.0	.0	.0	.0	100.0	

0 0

PERIOD: (PRIMARY) 1902-1978 (OVER-ALL) 1865-1978

TABLE 1

AREA 0025 MAGELLAN STRAIT WEST 53.75 73.98

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION						
	DERCENT EDECHERCY	DE	WEATHER	OCCUPBENCE	 HTNO	DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	19.8	8.8	7.7	.0	.0	.0	.0	36.3	4.4	:0	.0	.0	2.2	.0	57.1
NE	11.4	11.4	11.4	.0	.0	.0	.0	34.3	.0	.0	.0	.0	.0	.0	65.7
E SE	17.4	.0	.0	.0	.0	.0	.0	17.4	17.4	.0	.0	.0	.0	.0	65.2
SE	23.5	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0	.0	.0	.0	76.5
S	.0	7.3	.0	.0	3.6	.0	3.6	14.5	7.3	.0	3.6	.0	.0	.0	74.5
SW	6.2	11.6	.0	.0	.0	.0	.0	17.8	2.7	.0	21.9	.0	.0	.0	57.5
W	8.7	20.6	.6	.0	.0	.0	.0	29.9	4.5	.0	2.6	.0	.0	1.9	61.1
NW	14.7	8.9	5.8	.0	.0	.0	.0	29.3	3.9	.0	3.1	.0	. 8	3.9	59.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	10.3	12.3	2.8	.0	.4	.0	.4	26.2	4.4	.0	5.2	.0	.4	1.6	62.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			,	RECIPI	TATIU	M IANE					UTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNDW	
00&03 06&09 12&15 18&21	3.5 8.5 17.0 14.5	20.9 8.5 7.5 8.7	2.3 3.4 5.7 1.4	•0	1.9	.0	1.7 .0	26.7 22.0 32.1 24.6	3.5 3.4 3.8 5.8	.0	3.5 5.1 3.8 7.2	•0	1.7	2.3 3.4 1.9	62.8 64.4 58.5 60.9
TOT PCT	10.1	12.4	3.0	.0	.4	•0	.4	26.2	4.1	.0	4.9	•0	1.1	1.9	51.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WIR	D SPE	ED (KN	(STC								HOUR	(GMT)			
WND DIR	0-3			22-33		48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	.1	1.3	2.2	2.5	1.0	.3		7.3	23.1	3,9	.0	5.9		10.3	20.0	9.5	4.6
NE	.2	.9	.5	.6	.1	.0		2.3	14.9	3,5	.0	2.8	1.9	3.1	.0	1.9	1.0
E	.1	.7	.4	.2	.1	.0		1.5	11.5	.8	.0	1.9	2,2	1.6	.0	1.7	. 8
SE	.2	1.0	.7	.4	.1	.0		2.4	13.5	2.0	.0	2.9	2.2	2.2	.0	2.4	3.1
S	.3	2.4	2.4	1.4	. 5	. 2		7.3	17.1	10.7	.0	7.9	4.9	6.5	.0	6.8	6.8
SW	.4	3.6	5.3	5.9	2.2	. 9		18.4	22.1	18.2	45.0	14.7	19.3	22.2	.0	17.0	22.1
W	.5	4.8	9.7	10.8	4.6	1.2		31.6	23.0	30,3	30.0	30.1	32.7	30.1	25.0		30.6
NW	.3	3.4	8.2	9.6	5.7	1.1		28.2	24.6	29.2	25.0	33.3	29.6	23.2			30.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9		•		•			.9	.0	1.4	.0	.4	1.0		.0	.9	. 5
TOT OBS	52	325	528	562	254	65	1786		22.1	278	. 5	238	194	236	• 5	634	196
TOT PCT	2.9	18.2	29.6	31.5	14.2	3.6		100.0			100.0				100.0		

					IAC							
WND DIR	0-6	7-16	SPEED 17-27		41+	TOTAL OBS	PCT	MEAN SPD	00	06 09	12 15	18 21
N NE E	.5	1.8	2.6	1.5	.0		7.3 2.3 1.5	23.1 14.9 11.5	3.8	6.0 2.4 2.0	10.5 3.0 1.6	8.4 1.7 1.5
SE S	1.2	2.5	2.2	1.0	.0		7.3 18.4	13.5 17.1 22.1	10.5	2.6 6.5 16.8	2.2 6.3 21.8	2.5 6.8 18.2
NH M	2.1	7.8	11.2	7.4	3.1		31.6	23.0	30.3	31.3	30.0	32.7
CALM TOT OBS	168	454	.0 591	406	167	1786	:9	22.1	104 283	432	.0 .8 241	830
TOT PCT	9.4	25.4	33,1	22.7	9.4		100.0		100.0	100.0	100.0	100.0

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PERIOD:	(PRIMARY)	1902-1978
	INVER ALL	104. 107.

AREA 0025 MAGELLAN STRAIT WEST 53.75 73.9W

COCENTACE	EREQUENCY	nE	DIND	SPEED	BV	HOUR	(GMT)

HUUR	CALM	1-3	4-10	#IND	SPEED (48+	MEAN	PCT	TOTA
00603	1.4	2.5	21.6	31.8	31.1	10.2	1.4		100.0	283
60390	.7	1.6	19.7	29.6	28.5	16.9	3.0		100.0	432
12615	. 8	1.7	17.0	34.0	30.3	11.6	4.6		100.0	241
18621	. 8	2.2	16.6	27.5	33.5	14.9	4.5		100.0	830
TOT	16	36	325	528	562	254	65	22.1		1786
PCT	.9	2.0	18.2	29.6	31.5	14.2	3.0		100.0	

P	T FRE			DIREC		EIGHTHS)							CEILIN NH <5/					
WND DIR	0=2	3-4	5-7	8 & nBSCD	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.6	1.1	2.2	5.9		6.7	.0	.5	,6	.5	1.7	2.7	.5	.0	.0	.0	3.4	
NE	.0	.2	.6	2.2		7.3	.0	.0	1.3	.6	. 8	.0	. 2	.0	.0	.0	. 2	
E	.0	.0	.6	1.1		7.6	.0	1.1	.0	.0	.6	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.6	.?		7.2	.0	. 8	.0	.0	.0	.0	.0	.0	.0	.0	.0	
S	.0	.5	4.2	3.4		6.8	.5	.0	.0	. 5	1.9	1.3	3.0	.0	.0	.0	1.1	
SW	. 9	1.6	3.9	6.3		6.5	.2	1.4	1.4	.3	3.6	2.5	. 8	.0	.0	.0	2.5	
	3.3	4.2	11.6	12.0		5.9	.0	1.7	3.0	4.8	4.5	5.6	.0	.0	.0	.0	11.4	
NW	. 8	1.9	12.5	16.4		6.8	1.9	1.4	1.9	5.2	4.4	5.5	.0	. 6	.0	.6	10.2	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.6	.6		7.5	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	
TOT DBS	9	15	59	77	160	6,5	4	11	14	20	28	28	7	1	0	1	46	160
TOT PCT	5.6	9.4	36.9	48.1	100.0		2.5	6.9	8.8	12.5	17.5	17.5	4.4	.6	.0	.6	28.8	100.0

CUMULATIVE PCT FREQ	OF SIMULTANEOUS OCCURRENCE (NH >4/8) AND VSBY (NM)
B. 02121110 11210111	(IIII) III IIII IIII

						VSBY (NH				-
	C	TLING	· OR	- DR	• GR	∍ DR	· DR	- DR	- DR	= DR
	(1	EFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
	nk	>6500	.6	.6	.6	.6	.6	.6	.6	.6
•	TR	>5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
•	OR	>3500	2.9	5.2	5.2	5.2	5.2	5,2	5.2	5.2
	OR	>2000	13.9	20.2	22.0	22.0	22.0	22.0	22.0	22.0
		>1000	19.1	33.5	39.9	40.5	40.5	40.5	40.5	40.5
		>600	22.0	40.5	50.3	52.0	52.6	52.6	52.6	52.6
	MR	>300	24.9	46.8	56.6	60.1	61.3	61.3	61.3	61.3
		>150	25.4	49.1	63.6	67.6	68.8	68.8	68.8	68.8
		> 0	26.0	50.3	64.7	68.8	71.1	71.7	71.7	71.7
		TOTAL	45	87	112	119	123	124	124	124
	TO	TAL NUMB	ER OF 08	SI 17	2			NH <5/81	28.3	

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	OBS
3.3	4.4	8.3	6.1	5.6	5.6	17.8	10.6	36.1	2.2	180

M			

									IANCH								
PERIOD: (PR	IMARY) 1 ER-ALL) 1							TA					ARE	A 0025	MAGELL	AN STRAI	T WES
			PI	ERCENT	PREC	F WIN	O DIRE	CTION TH VAR	VS OCC	LUES	E OR N	IBILIT	URRENC	E OF			
	VSBY (NM)		N	NE	F	SE	\$	SW		NW	VAR	CALM	PCT	TOTAL			
	<1/2	PCP ND PCP TOT \$.0	.0	•0	.0	.0	.0	.0	:0	.0	.0	.0				
	1/2<1	PCP NO PCP	:4	.0	.0	.0	.0	.0	.0	1.9	.0	.0	2.6				
		TOT X	.0	.0	•0	.0			1.8	2.8	.0		3,5				
	1<2	NO PCP	.0	.0	.0	.0	•0	.0	1.8	.0	.0	.0	2.2				
	2<5	PCP NO PCP TOT \$	1.3	1.1 .0 1.1	.0	.0	.0	.5 .4 1.0	1.9 2.1 4.0	1.8	.0	.0	8.2 4.8 13.0				
	5<10	PCP ND PCP	1.3	1.3	1.7	.0	1.7	2.2	2.7	2.7	.0	.0	11.3				
		TOT \$	3.0	.0	2.2	.0	6.2	8.4	13,7	.1	.0	.0	1.3				
	10+	NO PCP	4.1	.8	,3	.1	4.4	5.8	8.3 9.1	7.7	.0	.9	32.5				
		TOT MBS	9.7	3,4	2,9	1.0	10.6	15.4	28.9	26.8	.0	1.3	100.0	231			

TABLE 9

				PERCENT	FREG	DF WI	ND DIR	S OF V	ISIBIL	ND SPE	EO		
VSBY (NM)	SPD KTS	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	• 0	.0	.0	.0	.0	.0	.4	.0		.4	
	TOT %	.0	•0	•0	.0	.0	.0	.0	.4	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	• 0	.0	.0	.0	.0	.0	. 8	.0		. 8	
	11-21	.0	.0	.0	.0	.0	.0	.2	.6	.0		. 8	
	22+	.4	•0	.0	.0	.0	.0	.0	1.6	.0		2.0	
	TOT %	.4	•0	.0	.0	•0	.0	.2	3.0	.0	.0	3.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.1	.7	.0	.0		. 8	
	22+	.0	.0	.0	.0	.0	.0	1.3	.3	.0		1.6	
	TOT %	.0	• 0	•0	.0	.0	.1	2.0	.3	.0	.0	2.4	
	0-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
2<5	4-10	.0	• 4	.4	.0	.0	.0	.4	. 8	.0		2.0	
	11-21	.5	.2	•0	.4	.0	.4	.9	. 8	.0		3.3	
	22+	1.1	.4	•0	.0	.0	. 5	2.2	3.5	.0		7.7	
	TOT %	1.6	1.0	.4	.4	•0	.9	4.0	5.1	.0	.0	13.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
5<10	4-10	.4	• 4	. 8	.4	2.5	1.5	1.0	1.0	.0		8.1	
	11-21	.3	.4	. 8	.0	2.4	3.0	4.7	3.4	.0		15.0	
	22+	2.3	.6	.4	.0	. 8	3.6	7.8	6.4	.0		22.0	
	TOT %	3.0	1.4	2.0	.4	5.8	8.1	13.5	10.8	.0	.4	45.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
10+	4-10	2.2	.1	.3	.1	.2	. 8	3.4	1.4	.0		8.5	
	11-21	1.4	.6	.0	.0	2.2	3.6	3.7	3.2	.0		14.6	
	22+	.6	.0	.0	.0	1.9	1.9	3.4	2.7	.0		10.6	
	TOT \$	4.3	• 7	.3	.1	4.4	6.3	10.4	7.3	.0	.8	34.6	
1	nT 085												246
1	OT PET	9.3	3.2	2.7	.9	10.2	15.4	30.1	26.9	.0	1.2	100.0	

TABLE 10

AREA 0025 MAGELLAN STRAIT WEST 53.75 73.9W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
60300	3.8	7.7	9.6	11.5	23.1	15.4	1.9	,0	.0	.0	73.1	26.9	52
90300	2.7	8.1	8.1	8.1	18.9	13.5	5.4	.0	.0	.0	64.9	35.1	37
12615	2.5	7.5	10.0	15.0	15.0	15.0	5.0	.0	.0	.0	70.0	30.0	40
18621	2.2	6.7	6.7	13.3	15.6	22.2	4.4	2.2	.0	2,2	75.6	24.4	45
TOT	2.9	13	15	12.1	32	29	4.0	1	.0	1	124	50 28.7	174

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(MM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	1.5	1.5	3.0	10.6	45.5	37.9	66	00803	3,8	21.2	38.5	34.6	26.9	52
90360	•0	3.1	1.6	14.1	48.4	32.8	64	06809	2,8	19.4	38.9	33,3	27.8	36
12615	•0	1.8	5.4	12.5	50.0	30.4	56	12615	2,5	22.5	45.0	27.5	27.5	40
18621	.0	6.7	2.7	14.7	38.7	37.3	75	18821	2,2	15.6	37.8	37.8	24.4	45
TOT PCT	1	3.4	8	34 13.0	118	91	261 100.0	TOT	2.9	34 19.7	39.9	58 33.5	46 26.6	173

ABLE 13

TABLE 1

					MOLE A	•									1400	6 44				
	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY B	Y TEMP	TOTAL	PCT		PERC	ENT FR	EQUEN	Y OF W	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	OBS	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	•0	.0	.5	.5	.0	.5	3	1.4	.0	.0	.3	.1	.0	. 1	.3	.5	.0	•0
50/54	.0	.0				1.4	4.1	5,5	34	15.5	2.0	2.5	:3	.0	. 8	. 2	3.2	5.8	.0	.5
45/49	.0	.0	.0	2.3	7.7	12.3	11.8	17.3	113	51.4	3.8	.1	.9	1.4	2.6	5.6	18.5	17.2	.0	1.4
40/44	.0	.0	.0	. 5	5.9	6.8	9.1	5,5	61	27.7	.9	.5	1.4	.0	6.6	8.4	7.7	2.3	.0	.0
35/39	.0	.0	.0	.0	.0	2.7	.5	. 9	9	4.1	.0	.0	.0	.0	3.2	.0	.9	.0	.0	.0
TOTAL	0	0	0	8	39	52	56	65	220	100.0										
PCT	.0	.0	-0	3.6	17.7	23.6	25.5	29.5	-		6.7	3.1	3.1	1.5	13.2	14.3	30.7	25.7	-0	1.8

TARLE 15

TABLE 16

	MEANS,	EXTREME	S AND	PERCEN	TILES	OF TEM	P (DE	G F) B	Y HOUR
HOUR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00603	55	54	52	46	40	36	35	46.3	282
90380	57	53	51	46	38	35	34	45.9	429
12615	56	54	51	46	39	36	34	45.9	237
18621	57	55	52	46	40	36	33	46.4	805
TOT	57	54	52	46	40	36	33	46.2	1753

	PERC	ENT FRE	QUENCY	UF RELA	I I VE H	PWIDIIA	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00403	.0	8.0	24.0	26.7	22.7	18.7	77	75
90300	.0	1.8	10.9	29.1	21.8	36.4	84	55
12615	.0	.0	10.9	17.4	39.1	32.6	85	46
18821	.0	1.7	20.7	22.4	27.6	27.6	82	58
TOT	0	8	41	57	63	65	81	234

MARCH

PERIOD: (PRIMARY) 1902-1978 (OVER-ALL) 1865-1978

TABLE 17

AREA 0025 MAGELLAN STRAIT WEST 53.75 73.98

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

IR-SEA	37	41	45	49	53	TOT	W	WO
MP DIF	40	44	48	52	56		FOG	FOG
9/10	.0	.0	.0	.0	:2	1	.0	.4
7/8	.0	.0	.4	.0	.4	2	.0	. 8
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.4	.0	.0	.4	2	.0	. 8
4	.0	.0	.0	3.3	.4	1 1 2 10	.0	4.1
6543210123	.0	.0	.0	2.9	1.2	10	.0	4.1
2	.0	.0	2.5	4.5	.0	17	.0	7.0
1	.0	1.2	4.1	3.7	.4	23	.0	9.5
0	.0	1.2	8.7	2.9	.4	32	.4	12.8
-1	.4	3,3	7.9	2.9	.4	35	. 8	13.6
-2	. 8	5.4	6.2	1.7	.0	34	2.5	11.6
-3	.0	2.9	2.9	1.2	.0	17	.0	7.0
-4	1.7	3,3	2.1	.0	.0	17	. 8	6.2
-5	. 8	4.1	2.5	.0	.0	18	.0	7.4
-6	.4	2.5	.4	.0	.0	8	.0	3.3
-7/-8	1.2	2.9	.4	.0	.0	11	.0	4.5
-9/-10	1.2	. 4	.0	.0	.0	-4	.0	1.7
TOTAL	16		93		10		11	231
		67		56	-	242		
PCT	6.6	27.7	38.4	23.1	4.1	100.0	4.5	95.5

PERIOD: (DVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) 34-47 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 22-23-25 26-32 33-40 41-48 49-60 61-70 71-86 TO PCT 1-3 48+ 1-3 48+ 34-47 HGT
<1
1-2
3-4
5-6
7
8-9
10-11
12
13-16
17-19
22-3-25
26-32
33-40
41-48
49-60
61-70
71-86
TP PCT 1-3 4-10 48+0.00.00.00.00.00.00.00.00.00 1-3 4-10 11-21

									MARCH							
PERIOD	(OVE	R-ALL)	1963-19	978				TABLE	18 (CONT	,			AREA		MAGELLAN ST	RAIT WEST
				PC	T FREQ D	F WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)		
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
1-2	.0	.8	.0	.0	.0	.0	.6		.0	1.3	1.3	.0	.0	.0	1.3	

				s		48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
HGT <1	1-3	4-10	11-21	22-33	34-47		.6	.0	1.3	.0	.0	.0	.0	1.3	
1-2	.0		•0	.0	.0	.0	.0	.0	.3	1.3	.0	.0	.0	1.6	
3-4	.0	.0	:0	.0	:0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.3	.3	.0	.5	
7	.0	.0	. 8	3.0	.0	.0	3,8	.0	.0	2.4	3.5	.0	.0	5.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1		.0	.0	1.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0		.5	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	:0	.0	1.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	. 8	1.9	3.0	.0	.0	5.6	.0	1.6	5.9	5.4	. 3	.0	13.2	
HGT	1-3	4-10	11-21	W 22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	2.2	.0	.0	.0	.0	2.2	
1-2	.0	1.9	1.6	.0	.0	.0	3,5	.0	1.3	2.4	.0	.0	.0	3.8	
3-4	.0	1.1	4.3	3.8	.0	.0	9.1	.0	1.1	5.4	1.9	. 0	.0	8.3	
5-6	.0	.0	4.8	3.0	. 8	.0	8.6	.0	1.1	1.6	4.3	.0	.0	7.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	3.2	
8-9	.0	.0	.0	1.6	.0	.0	1,6	.0	.0	.0	1.6	.0	.0	1.6	
10-11	.0	.0	2.2	2.4	.0	.0	4.6	.0	.0	.0	1.3	.0	.0	1.3	
12	.0	.0	.0	.8	.0	.0	. 8	.0	.0	.0	1.3	.0	.0	1.3	
13-16	.0	.0	1.1	4.0	.0	.0	5,1	.0	.0	.0	3.5	.0	.0	3.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	.0	:0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	•0	.0		0	.0	.0		•0	5.6	.0	0	.0	.0	32.5	100 0
TOT PCT	.0	4.0	14.0	15.6	.8	.0	34,4	.0	3.0	9.4	17.5	.0	.0	32.5	100.0

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	9.4	1.0	.0	.0	.0	10.4	003
1-2	2.1	6.3	5.2	.0	.0		13.5	
3-4	.0	2.1	11.5	8.3			21.9	
5-6	.0	1.0	7.3				17.7	
7	.0	.0	3.1				13.5	
8-9	.0	.0	1.0		.0	.0	4.2	
10-11	.0	.0	2.1	4.2	.0	.0		
12	.0	.0	.0	3.1	.0	.0		
13-16	.0	.0	1.0	7.3	.0			
17-19	.0	.0	.0	.0		.0	.0	
20-22	.0	.0	.0	1.0	.0			
23-25	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0				.0	
33-40	.0	.0	.0	.0			.0	
41-48	.0	.0	.0	.0		.0	.0	
49-60	.0	.0	.0	.0			.0	
61-70	.0	.0	.0	.0			.0	
71-86	.0	.0	.0				.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								96
TOT PCT	2.1	18.8	32.3	45.8	1.0	.0	100.0	

PERIO	D: (DV	ER-ALL	195	0-197	9				TABLE	19											
					PERCENT	FREG	DUENCY	OF WA	VE HE 1	GHT (F	7) VS	WAVE P	ERIGO	(SECON	051						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	6.4	9.3	9.3	10.7	2.1	1.4	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	
6-7	.0	.0	1.4	1.4	1.4	2.1	4.3	1.4		2.1	1.4	.7	.0	.0	.0			.0	.0	29	11
8-9	.0	.7	1.4	3.6		1.4	3.6	2.9		.7	.7	2.1	.0	.0	.0	.0	.0	.0	.0	33	10
10-11	.0	.0	.0	.0	.7	.7	.7	1.4	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	7	13
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0	.0	0	
>13	.0	.0	.0	. 7	.7	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	,	11
INDET	3.6	.0	.0	.7	.7	.0	.7	.0		.7	.0		.0				.0	.0	.0	11	6
TOTAL	14	14	17	24	14		13	9	12	5	5	5	0	0	0	0	0	0	0	140	8
PCT	10.0	10.0	12.1	17.1	10.0	5.7	9.3	6.4	8.6	3.6	3.6	3.6	.0	.0	.0	.0	.0	.0	.0	100.0	

1

PERCENT	FREDUENCY	DF	WEATHER	DCCURRENCE	RY	WIND	DIRECTION	١

						_									
			,	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	33.3	9.9	3.7	.0	.0	.0	.0	43.2	.0	.0	19.8	.0	.0	.0	37.0
NE	36.4	.0	36.4	.0	.0	.0	.0	72.7	.0	.0	9.1	.0	.0	.0	18.2
E	41.4	.0	17.2	.0	.0	.0	.0	58.6	.0	.0	17.2	.0	.0	.0	24.1
SE	15.9	4.5	2.3	.0	.0	.0	.0	22.7	4.5	.0	9.1	.0	.0	.0	63.6
S	2.4	2.4	.0	.0	.0	.0	2.4	7.3	.0	.0	26.8	.0	.0	.0	65.9
SW	8.1	6.3	.0	.0	3.8	.0	2.5	20.6	1.9	.0	37.5	.0	.0	.0	40.0
W	16.9	6.5	.0	.0	1.3	.0	1.3	26.0	9.7	.0	16.9	.0	.0	.0	47.4
NW	14.2	14.2	3.2	.0	2.6	.0	2.6	36.1	6.5	.0	10.3	.0	.0	.0	47.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT TOT OBS:	16.7	6.9	3.4	.0	1.5	.0	1.5	29.6	3.9	.0	19.7	.0	•0	.0	46.8

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THDR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00403 06409 12415 18421	18.2 15.9 18.4 14.9	9.1 1.6 7.9 9.5	4.8 7.9	.0	1.6	.0	1.6 .0 2.7	27.3 25.4 34.2 29.7	9.1 1.6 7.9 1.4	•0	18.2 22.2 18.4 20.3	.0	•0	.0	45.5 50.8 39.5 48.6
TOT PCT	16.3	6.7	3.4	.0	1.4	•0	1.4	28.8	3.8	.0	20.2	•0	.0	.0	47.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WIT	O SPE	ED TEN	ors)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N NE	.2	1.7	2.6	1.7	1.2	.5		7.9	21.8	8,3	.0	9.6	7.3	5.6	.0	8.5	7.6
	.3	1.6	1.5	. 4	.1	.0		3.9	12.3	3,6	.0	3.4	2.5	5.3	,0		4.9
E SE	. 1	1.8	1.9	.5	.4	. 1		4.9	15.6	6.4	50.0	4.7	5.3	4.8	50.0	4.1	4.9
S	.5	3.0	2.5	1.3	.8	.2		8.3	16.8	6,6	50.0	7.6	9.7	9.4	.0	7.9	9.4
SW	.2	4.8	5.3	6.1	3.0	1.3		20.7	22.6	21.1	.0	18.3	17.6	19.5	50.0	22.5	22.2
W	.5	3.5	7.1	8,8	4.5	1,5		25.9	24.7	25.7	.0	25.6	24.3	28.7	.0	27.2	21.2
NW	.7	2.6	6.5	7.1	5.7	1.2		23,8	25.4	24,3	.0	25.5	26.3	20.8	.0	22.5	25.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	.8	.0	2.1	2.3	1.3	.0	.7	. 9
TOT OBS	65	346	494	459	274	82	1720		22.0	236	1	235	220	236	2	579	211
TOT PCT	3.8	20.1	28.7	26.7	15.9	4.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	0=6	WIND 7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00	06 09	12 15	18 21
N NE	:9	2.6	2.0	1.2	1.2		7.9	21.8	8.2	8.5	5.6	8.2
	1.0	2.1	.6	:3	.0		3.9	12.3	3.6	3.0	5.3	4.1
SE	1.2	3.5	2.0	1.1	.4		8.3	15.6	6.5	8.6	9.3	8.3
SW	1.7	6.3	5.7	6.5	3.5		20.7	24.7	25.6		19.7	22.4
NW	1.4	4.4	8,2	6.3	3.5		23,8	25.4	24.2	25.9	20.6	23.4
CALM	1.2	•0	.0	.0	.0		1.2	.0	:0	2.2	1.3	.8
TOT DES	178	27.6	29.9	21.0	190	1720	100.0	22.0	100.0	100.0	238	790

PERIOD:	(PRIMARY)	1903-1977
	(OVER-ALL)	1870-1977

TABLE 4

AREA 0025 MAGELLAN STRAIT WEST 53.85 73.8W

PERCENTAGE	ERECHENCY	O.F	WIND	SPEED	RV	HOUR	COMT

HOUR	CALM	1-3	4-10	WIND	SPEED (48+	MEAN	PCT	TOTAL
00403	.8	3.0	24.1	31.6	23.2	11.8	5.5	20.4	100.0	237
90300	2.2	3.1	19.6	25.9	28.4	14.5	6.4	22.3	100.0	455
12615	1.3	2.9	24.8	24.8	25.6	15.5	5.0	21.4	100.0	238
18621	.8	2.0	17.8	30.6	27.1	18.1	3.5	22.5	100.0	790
TUT	21	44	346	494	459	274	82	22.0		1720
PCT	1.2	2.6	20.1	28.7	26.7	15.9	4.8		100.0	

TABLE

TABLE 6

,	CT FRE			CLOUD A		(EIGHTHS)			PERCEN	TAGE F	REQUEN	ICY OF	CEILIN NH <5/	B BY W	HTS (RECTI	>4/8) ON	
WND DIR	0=2	3-4	5-7	8 6	TOTAL OBS	CLOUD	000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.0	.0	1.4	6.9		7.4	.0	.0	.0	4.0	2.9	.0	.0	.0	.0	.0	1.4	
NE	1.4	.0	.0	.0		2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
E	.0	.0	.0	1.4		8.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	
SE	.0	.0	2.2	10.9		7.6	.0	.0	.0	.0	10.1	1.4	.0	1.4	.0	.0	.0	
S	1.1	.0	1.8			7.0	.0	.0	.0	.0	6.9	1.4	.0	.0	.0	.0	1.1	
Sw	1.4	2.5	6.2			5,8	.0	.0	2.2	2.9	3.3	.0	1.4	1.4	.0	.0	5.4	
W	1.8	1.8	4.7			6.6	.0	.0	4.7	2.2	5.1	.0	.0	2.2	.0	.0	6.2	
NW	4.3	4.3	6.9			5.7	.0	.0	.4	4.0	8.0	.0	2.9	.7	.0	.0	9.1	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	1.4	.0	2.9		6,3	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	1.4	
TOT OBS	7	7	16	39	69	6.4	0	0	'5	9	26		3	4	0	0	18	69
TOT PCT	10.1	10.1	23.2	56.5	100.0		.0	.0	7.2	13.0	37.7	5.8	4.3	5.8	.0	.0	26.1	100.0

TABLE 7

					VSBY (NE	1)			
C	FILING	• OR	• DR	- OR	• OR	• OR	- OR	- DR	- OR
(1	FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50Y0	>0
nR	>6500	.0	.0	.0	.0	.0	.0	.0	.0
OR	>5000	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
OR	>3500	7.0	8.5	11.3	11.3	11.3	11.3	11.3	11.3
OR	>2000	12.7	15.5	18.3	18.3	18.3	18.3	18.3	18.3
OR	>1000	40.8	49.3	53.5	34.9	54.9	54.9	54.9	54.9
OR	>600	47.9	59.2	64.8	67.6	67.6	67.6	67.6	67.6
DR	>300	47.9	64.8	70.4	73.2	73.2	73.2	74.6	74.6
DR	>150	47.9	64.8	70.4	73.2	73.2	73.2	74.6	74.6
nR	> 0	47.9	64.8	70.4	73.2	73.2	73.2	74.6	74.6
	TOTAL	34	46	50	52	52	52	53	53
		ER OF 08		1		CT FREQ		25.4	

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 OBSCO OBS 2.6 3.9 6.5 10.4 1.3 5.2 10.4 15.6 44.2 .0 77

0

										PRIL					
PERIOD:	(PRIMARY)) 1	903-1977 870-1977						TA	BLE 8				ARE	A 0025 MAGELLAN STRAIT WEST 53.88 73.8W
				P	ERCENT	PREC	OF WIN	D DIRE	CTION TH VAR	VS DC	URRENC	E OR N	IBILIT	URRENC	E OF
		SBY MM)		N	NE	E	SE	s	SW		NW	VAR	CALM	PCT	TOTAL
	<:	1/2	PCP NO PCP TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	1.	/2<1	PCP ND PCP TOT %	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	1.5 1.0 2.5	
	1	(2	PCP ND PCP TOT \$	1.0	.0	.5	.5	.0	.7	.7 .5	.0	.0	.0	3.4	
	24	(5	PCP NO PCP TOT #	1.4	1.0	1.0	1.2	.0	.2 .5 .7	.2	1.6	.0	.0	6.9 2.0 8.9	
	54	(10	PCP NO PCP TOT %	2.0 3.4 5.4	1.0	1.0	2.0	6.2	3.1 10.6 13.7	3.6 10.0 13.5	4.2 5.8 10.0	.0	.0	15.8 39.9 55.7	
	10	•	PCP NO PCP TOT \$	2.0	.5	1,0	6.2	3.2 3.2	4.6 4.6	3.1 3.1	1.0 5.7 6.7	.0	1.0	1.5 26.6 28.1	
			TOT DBS	10.0	2.7	7.1	10.8	10.1	19.7	19.0	19.1	.0	1.5	100.0	203

TABLE 9

				PERCEN	T FREQ	DF WI	ND DIF	S OF	VS WI	ND SPE	ED		
(NM)	SPD	N	NE	E	SE	s	SW		NW	VAR	CALM	PCT	TOTAL
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0		
<1/2	4-10	.0	.0	•0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.3	.6	.0		.9	
	TOT \$.0	•0	•0	.0	.0	.0	.3	.6	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	4-10	.0	•0	1.1	.2	.0	.0	.0	.0	.0		1.3	
	11-21	.0	•0	.4	.0	.0	.0	.0	.0	.0		.4	
	22+	.2	•0	•0	.0	.0	.0	.0	.7	.0		. 9	
	TOT %	.2	•0	1.6	•5	•0	.0	.0	.7	.0	.0	2.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	4-10	.0	.0	.0	.4	.0	.2	.2	.0	.0		.9	
	11-21	. 9	.0	.7	.2	٤0	.0	.0	.0	.0		1.8	
	22+	.0	•0	.0	•0	.0	.4	.9	.0	.0		1.3	
	TOT \$.9	•0	.7	.7	.0	.7	1.1	.0	.0	.0	4.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2<5	4-10	.4	• 4	.9	.7	.2	.0	.0	.9	.0		3.6	
	11-21	.3	.4	.4	.4	.0	.4	.0	.1	.0		2.2	
	22+	.4	•0	•0	•0	.0	.7	.7	. 9	.0	_	2.7	
	TOT %	1.2	.9	1.3	1.1	.2	1.1	.7	1.9	.0	.0	8.4	
	0-3	.0	.0	.0	.0	.4	.0	.4	.0	.0	.4		
5<10	4-10	1.1	1.1	.9	.7	3.1	6.7	.2	.4	.0		14.2	
	11-21	2.0	.0	1.1	1.6	1.1	2.9	4.9	3.8	.0		17.3	
	22+	1.8	.0	.0	.0	1.3	3.0	7.3	5.2	.0		18.7	
	TOT \$	4.9	1.1	2.0	2.2	6.0	12.6	12.9	9.4	.0	.4	51.6	
	0-3	.0	.0	.0	.0	.0	.0	.3	1.0	.0	1.3	2.7	
10+	4-10	.9	.0	.0	1.3	1.6	1.8	1.8	2.4	.0		9.8	
	11-21	.0	.0	.9	1.1	.4	2.4	1.1	1.6	.0		7.6	
	22+	.9	.4	.0	3.1	1.3	2.3	1.9	2.4	.0		12.4	
	TOT %	1.8	• 4	.9	5.6	3.3	6.6	5.1	7.4	.0	1.3	32.4	
•	280 701												225
1	OT PET	9.0	2.4	6.4	9.8	9.6	20.9	20.1	20.0	.0	1.8	100.0	

	R	

PERIOD: (PRIMARY) 1903-1977 (QVER-ALL) 1870-1977

TABLE 10

AREA 0025 MAGELLAN STRAIT WEST

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HDUR (GMT)	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
€0300	•0	.0	•0	20.0	46.7	6.7	.0	13.3	.0	.0	86.7	13.3	15
90300	•0	.0	5.3	10.5	31.6	5.3	5.3	10.5	.0	.0	68.4	31.6	19
12615	.0	.0	13.3	20.0	33.3	.0	6.7	.0	.0	.0	73.3	26.7	15
18621	.0	.0	8.7	4.3	34.8	13.0	8.7	.0	.0	.0	69.6	30.4	23
TOT PCT	.0	.0	6.9	12.5	26 36.1	6.9	5.6	5.6	.0	.0	73.6	26.4	72

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	GES OF	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	•0	.0	8,6	2.9	45.7	42.9	35	00603	.0	.0	20.0	66.7	13.3	15
90300	.0	2.8	1.4	8.3	48.6	38.9	72	06609	.0	5.3	15.8	52.6	31.6	19
12615	.0	2.4	.0	16.7	59,5	21.4	42	12815	.0	13.3	46.7	26.7	26.7	15
18621	2.5	3.7	6,2	7.4	51.9	28.4	81	18621	.0	9.1	22.7	50.0	27.3	22
PCT	.9	2.6	3,9	8.7	118 51.3	75 32.6	230	TOT	.0	7.0	18 25.4	35 49,3	18 25,4	71

TABLE 13

					ELATIV				TOTAL	PCT		PERC	ENT PR	EQUENC	1 UF #	IND DI	RECTIO	N BY T	EMP	
EMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	:	2.0	4	1.6	1.2 15.9 13.9	11	37.3	.7	.0	.0	.0	.0	1.0	.5	2.2	.0	• (
	.0	.0	•0		. 8	7.1	12.7	15.9	94	37.3	4:7	.3	3.1	2.2	1.6	11.4	4.9	7.6	.0	1.6
40/44	.0	.0	•0	.0	2.0	8.7	20.6	13.9	114	45.2	5.6	3.2	7.3	6.0	5.2	8.1	6.9	7.6 3.8	.0	•
35/39	.0	.0	.0	.0	. 8	4.4	5.6	2.4	33	13.1	.0	.4	. 5	1.7	5.2	3.2	1.8	.0	.0	
TOTAL	0	0	0	3	11	20.6	102	84	252	100.0						-	-		•••	
PCT	.0	.0	•0	1.2	4.4	20.6	40.5	33,3			10.9	3.9	10.9	9.8	11.1	23.7	14.1	13.6	.0	2.0

TABLE 15

	MEANS, E	XTREMES	AND	PERCEN	TILES	OF TEMP	IDEG	F) B	HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	54	52	50	44	39	37	34	44.3	238
06609	53	52	50	44	37	35		43.7	457
12615	55	52	50	43	37	36		43.3	236
18821	57	53	50	44	38	35		44.2	776
TOT	57	52	50	44	38	35	33	44.0	1707

TABLE 16

	PERC	EN! PKE	AOEIIC I	OF KELA	I TAE W	DWIDTIA	BY MUUN	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60300	.0	2.3	4.7	30.2	44.2	18.6	82	43
06609	.0	.0	6.5	16.9	37.7	39.0	85	77
12615	.0	.0	2.3	20.5	45.5	31.8	85	44
18821	.0	2.1	4.3	19.1	40.4	34.0	84	94
TOT	0	3	12	53	106	84	84	258

PAGE 022

APRIL

PERIOD: (PRIMARY) 1903-1977 (QVER-ALL) 1870-1977

TABLE 1

GREA 0025 MAGELLAN STRAIT WEST 53.85 73.8W

PCT FRED OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

*3	MIK	-SEM	CHPE	KAIUKE	D1	EVENCE	IDEO F		
IR-SEA	33			45	49 52	53 56	TOT	FOG	FDG.
						•			
9/10	.0	.0	.0	.0	.0	.6	1	.0	.6
5	.0	.0	.0	.0	1.2	.0	2	.0	1.2
•	.0	.6		1.2	.0	.0	3	.0	1.8
3	.0	.0		1.8	.0	1.2	5	.0	3.1
2	.0		.0	3.1	1.2	.0	7	1.8	2.5
1	.0	.0	.0	10.4	1.2	.0	19	2.5	9.2
0	.0	.0	3.1	6.1	.0	.0	16	1.8	8.0
-1	.0	.0	9.8	2.5	. 6	.0	21	3.1	9.8
-2	. Q	1.2	10.4	4.3	3.1	.0	31	4.3	14.7
-3	.0	2.5		1.8	.0	.0	10	2.5	3.7
-4	.0	2.5	1.8	3.1	. 6	.0	13	1.2	6.7
-5	.6	6.1	3.7	1.2	.0	.0	19	1.2	10.4
-6	.0	2.5	.0	.6	.0	.0	3	.6	2.5
-7/-8	.0		1.2	1.2	.0	.0	10	.0	6.1
-9/-10	.0	.6		.0	.0	.0	ī	.0	.6
TOTAL	1		52		14		-	31	132
	•	32		61		3	163	•	
PCT	.6		31.9		8.6	1.8	100.0	19.0	81.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) HGT
<1
1-2
3-4
5-6
7
8-9
10-11
12
13-16
17-19
22-3-25
26-32
33-40
41-48
49-60
61-70
71-86
71-86 11-21 34-47 1-3 1-3 11-21 11-21 34-47 1-3 22-93 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 1-3 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 61-70 71-86 87+

PERIOD:	Inve	R-A(()	1963-1	077					APRIL				AREA	0025	MACELLA	N STRAIT WEST
PER 100.		4.6.7	1,03-					TABLE	18 (CONT)			****	53.		.8W
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HE10	HTS (FT)			
				5								SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0		.0	2.9	.0	.0	.0	.0	2.9	
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	. "	.0	.0	.0	.0		.0	.0	2.9	.0	:0	.0	2.9	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	9.3	.0	.0	9.3	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	2.9	2.9	.7	:7	.0	7.1	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	2.9	.0	2.9	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19 20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.7	.0	.0	.7	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0.	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	•0	.0		.0	5.7	5.7	10.7	3.6	.0	25.7	
				w								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
	•	•										••				

											NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0		.0	.0	.0	.0	2.9	2.9	.0	.0	.0	5.7	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	2.9	
5-6	.0	.0	.0	2.1	.0	.0	2.1	.0	.0	2.9	.0	. 0	.0	2.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	2.9	2.9	.0	8.6	
8-9	.0	.0000	.0	2.1	2.1	.0	4,3	.0	.0	.0	.0	. 0	.0	.0	
10-11	.0	.0	.0	.0	2.1	.0	2.1	.0	.0	.0	5.7	.7	.0	6.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	5.7	.0	.0	5.7	.0	.0	.0	.0	2.9	.0	2.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	,0	.0		.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	000000	.0	.0	
23-25	.0	.0	5.7	2.1	.0	.0	7.9	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	-0	.0	.0	.0	.0	.0	.0	.0	. 0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	
TOT PCT	.0	.0	5.7	12.1	4.3	.0	22.1	.0	8.6	5.7	8.6	6.4	.0	29.3	97.

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.9	2.9	.0	.0	.0	.0	5.7	003
1-2	.0	14.3	2.9	.0	.0	.0	17.1	
3-4	.0	2,9	2.9	.0	.0	.0	5.7	
5-6	.0	.0	2.9			.0	17.1	
7	.0	2.9	.0	2.9		.0	8.6	
8-9	.0	2.9	2.9		2.9	.0	11.4	
10-11	.0	.0	.0	8.6	8.6		17.1	
12	.0	.0	.0		.0	.0	.0	
13-16	.0	.0	.0	5.7	2.9		8.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0		.0	.0	
23-25	.0	.0	5.7	2.9		.0	8.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0		.0	.0	
61-70	.0	.0	.0		.0	.0	.0	
71-86	.0	.0	.0				.0	
87+	.0	.0	.0			.0	.0	
•,•	••	••	••		• •	••		35
TOT PCT	2.9	25.7	17.1	37.1	17.1	.0	100.0	•

PERIO): (OV	ER-ALL)	194	9-1977					TABLE	19											
					PERCEN	FRE	QUENCY	OF WA	VE HE !	GHT (F	T) VS	WAVE P	ERIQO	(SECON	DS)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-25	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	4.8	6.5	1.6	4.8	1.6	.0	8.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
6-7	.0	.0	6.5	8.1	8.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
8-9	.0	.0	.0	.0	4.8	3.2	.0	.0	1.6	.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0	10	14
10-11	.0	3.2	.0	.0	1.6	6.5	1.6	.0	6.5	.0	.0	1.6		.0	.0	.0	.0	.0	.0	13	10
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	3.2	.0	.0	.0	.0	.0		.0	.0	2	21
>13	.0	.0	.0	.0	.0	.0		.0					.0		.0	.0		.0	.0	2	18
INDET	3.2	.0	.0	.0	.0	1.6		.0	.0	.0			.0	.0	.0	.0		.0	.0	3	٠,
TOTAL		6	5	8	10	7	6	Ö	7	0	3	5	Ö	0	0	0	0	Ö	Ö	62	9
PCT	8.1	9.7	8.1	12.9	16.1	11.3	9.7	.0	11.3	.0	4.8	8.1	.0	.0	.0	.0	.0	.0	.0	100.0	

AREA 0025 MAGELLAN STRAIT WEST 53.85 73.8W

DERCENT EDECHENCY D	E WEATHER	DECLIRRENCE &	V WIND	DIRECTION

					E. OF IL	Kreo		T HEATTE	Desouvener	01 44	110 011	20110				
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA		
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW		
N	4.9	17.5	7.8	.0	.0	.0	.0	30.1	2.9	.0	21.4	.0	.0	.0	45.6	
NE	16.1	32.3	.0	.0	.0	.0	.0	48.4	.0	.0	.0	.0	.0	.0	51.6	
E	11.1	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	.0	.0	88.9	
E SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
S	.0	.0	.0	.0	8.9	.0	.0	8.9	.0	.0	26.7	.0	.0	.0	64.4	
SW	10.1	4.0	4.0	.0	.0	.0	.0	18.2	8.1	.0	12.1	.0	.0	.0	61.6	
W	11.9	7.5	3.0	.0	6.0		3.0	31.3	5.2	3.0	3.0	.0	.0	.0	57.5	
NW	9.0	17.0	6.0	.0	.0	.0	.0	32.0	1.0	.0	15.0	.0	.0	.0	52.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	.0	• 0	.0	.0	80.0	
TOT PCT	8.5	11.6	4.9	.0	1.8	.0	.6	27.4	3.0	.6	12.2	•0	.0	.0	56.7	

TARIF 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

						- KAE			-INEK OFCOM	MENCE	81 1100				
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	GTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG MO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	5.5 5.9 15.4	15.2 9.1 13.8 9.6	7.3 6.9 3.8	.0	1.8 3.4 1.9		.0 .0 .0	21.2 23.6 31.0 32.7	5.5 3.4 1.9	1.8	9.1 16.4 10.3 13.5	.0	.0	.0	69.7 52.7 55.2 51.9
TOT PCT	8.9	11.2	4.7	.0	1.8	.0	.6	27.2	3.0	.6	13.0	•0	.0	.0	56.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

				- STALLINGER		0.00											
WND DIR				ED (KN)		48+	TOTA:	PCT	MEAN	00	03	06	HOUR 09	(GMT)	15	18	21
HND DIK	0-3	4-10	11-21	26-33	34-47	***	TOTAL	FREQ	SPO	00	03	00	07		15	10	21
N	.4	2.5	2.8	2.0	1.3	.4		9.5	20.3	12.5	.0		9,2	7.5	.0	9.5	11.8
NE	.2	1.3	1.7	1.0	• 2	. 1		4.5	16.2	3,6	.0	3.6	3.2	5.2	.0	5.2	5.3
E	.3	1.3	1.1	.7	. 1	.0		3.6	14.5	4.1	.0	4.0	3.4	1.9	.0	3.4	5.3
SE	.4	1.5	1.1	.7	.3	.0		4.0	14.8	4.1	.0	4.9	5,5	4.8	.0	2.8	3.5
S	.3	2.2	3.4	1.3	. 8	. 1		8.1	17.4	8.4	.0	6.3	10.0	9.0	.0	8.1	6.4
SW	. 2	3.7	6.1	4.9	4.1	. 8		19.9	23.3	18.2	.0	22.3	22.3	19.9	.0	18.8	19.3
W	.3	3.1	7.5	7.4	5.0	1.3		24.6	24.7	20.9	.0	19.8		22.2	.0	30.9	23.9
NW	.3	3.7	6.6	6.5	5.1	2.2		24.5	25.8	26.5	.0	30.0	24.8	27.7	.0	20.2	23.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.5							1.5	.0	1.7	.0	2.4	1.4	1.8	.0	1.2	.5
TOT OBS	66	331	520	423	293	86	1719	-	22.2	234	0	253	219	224	0	587	202
TOT PCT	3.8	19.3	30,3	24,6	17.0	5.0		100.0		100.0	.0	100.0	100.0	100.0	.0		100.0

WND DIR	0-6	7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18 21	
N NE	1.1	3.3 1.6 1.1	1.3	1.6	1.0		9.5 4.5 3.6	20.3 16.2 14.5	12.5 3.6 4.1	7.9 3.4 3.7	7.5 5.2 1.9	10.0	
SE	1.0	3.2	2,4	1.1	.1		8.1	14.8	8.4	5.2	9.0	3.0	
SW W NW	1.5	5.5 5.5 5.3	5.3 7.6 7.5	6.9	3.1		19.9 24.6 24.5	23.3 24.7 25.8	18.2 20.9 26.5	20.0	19.9 22.2 27.7	18.9 29.1 21.1	
CALM	1.5	.0	•0	.0	.0		1.5	.0	1.7	1.9	1.8	1.0	
TOT OBS	186	27.2	28,2	22.7	191	1719	100.0	22.2	100.0	100.0	100.0	789	

		TABL

		PER	ENTAGE	FREQUE	ENCY OF	MIND	SPEED	84	HOUR	(GMT)	
HOUR	CALM	1-3	4-10	11-51 MIND	SPEED 3	(KNOT!	.,	••	MEAN	PET	TOTAL

60300	1.7	2.1	18.8	30.3	23.5	16.2	7.3	22.4 100.0	23
06409	1.9	2.3	21.4	29.2	23.5	17.2	4.4	21.8 100.0	47
12615	1.8	1.3	21.0	27.2	24.6	20.1	4.0	22.4 100.0	22
18621								22.3 100.0	78
TOT								22.2	171
PCT			19.3	30.3	24 6	17.0	5.0	100.0	-

	3	=	

P	CT FRE			LOUD A		(EIGHTHS)			PERCEN		REQUEN		CEILIN NH <5/	6 HE 16		RECTIO		
WND DIR	0=2	3-4	5-7	8 &	TOTAL	CLOUD COVER	000 149	150	300 599	600	1000	2000 3499	3500 4999	5000	6500 7999	6000+	NH <5/8 ANY HGT	TOTAL
N	1.4	.0	6.0	4,2		6,2	.0	.0	1.4	2.8	.0	.9	3.7	.0	.0	.0	2.8	
NE	.0	.9	.5	5.6		7.2	.0	.0	.5	4.2	.0	.0	.0	.0	.0	.9	1.4	
E	1.9	.9	.0	1.9		4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	2.8	
SE	.0	.0	1.9	. 9		7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.9	
5	1.4	.0	1.9	1.9		5.6	.0	.0	.0	1.9	.0	1.9	.0	.0	.0	.0	1.4	
SW	2,3	1.9	2.8	8.3		6.1	.0	3.7	. 5	2.3	2.8	1.9	.0	.0	.0	.0	4.2	
¥	4.2	3.7	18.5	6.0		5,5	.0	.0	3.2	6.9	9.7	.0	.0	.0	.0	.0	12.5	
NW	1.9	.0	3.7	6.5		6.3	.0	.0	1.9	4.2	. 5	. 0	.0	.0	.0	.0	4.6	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	3.7	5.6		7.6	.0	.0	.0	.0	.0	3.7	3.7	1.9	.0	.0	.0	
TOT 085	7	4	21	22	54	6,1	0	2	4	12	7	5	4	1	0	2	17	54
TOT PCT	13.0	7.4	38.9	40.7	100.0	• •	.0	3.7	7.4	22.2	13.0	9.3	7.4	1.9	.0	3.7	31.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING MEIGHT (NM >4/8) AND VSBY (NM)

				VSBY (NM)			
CEILING	- OR	- DR	- DR	· OR	· DR	- OR	 OR 	= OR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ TR >6500	1.9	3.8	3.8	3.8	3.6	3.6	3.8	3.6
■ NR >5000	3.8	5.7	5.7	5.7	5.7	5.7	5.7	5.7
■ DR >3500	9.4	13.2	13.2	13.2	13.2	13.2	13.2	13.2
■ DR >2000	11.3	18.9	20.8	20.8	8.05	20.8	20.8	20.8
■ DR >1000	17.0	26.4	30.2	32.1	32.1	34.0	34.0	34.0
■ NR >600	26.4	43.4	50.9	52.8	52.8	56.6	56.6	56.6
■ DR >300	30.2	49.1	58.5	60.4	60.4	64.2	64.2	64.2
■ RR >150	30.2	50.9	62.3	64.2	64.2	67.9	67.9	67.9
. OR > 0	30.2	50.9	62.3	64.2	64.2	67.9	67.9	67.9
TOTAL	16	27	33	34	34	36	36	36

TOTAL NUMBER OF OBS1 53

PCT FREQ NH <5/81 32.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD DBS 6.7 5.0 6.7 5.0 6.7 11.7 13.3 16.7 28.3 .0 60

PAGE 026

MAY

PERIOD: (PRIMARY) 1902-1975 (DVER-ALL) 1869-1975

TABLE 8

AREA 0025 MAGELLAN STRAIT WEST 53.85 73.8W

		1	PERCENT	FREO	OF WIND	DIRE	CTION TH VAR	VS OCC	VALUES	E OR N	IBILI	CURRENC	E OF
VSBY		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
	PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
<1/2	NO PCP	.0	.0	.0	.0	. 6	.6	.6	.6	.0	.0		
	TOT *	.6	.0	.0	.0	.6	.6	.6	.6	.0	.0		
	PCP	.6	.3	.0	.0	.0	.9	.9	1.6	.0	.0	4.4	
1/24		.9	.0	.0	.0	.0	1.3	.0	. 3	.0	.0	2.5	
	101 \$	1.6	.3	• 0	.0	.0	2.2	. 9	1.9	.0	•0	6.9	
	PCP	.3	.3	.0	.0	.0	.6	.6	.0	.0	.0		
1<2	NO PCP	1.3	.0	.0	.0	.0	.6	.0	.0	.0	.0		
	TOT %	1.6	.3	.0	.0	.0	1.3	.6	.0	.0	.0	3.8	
	PCP	.6	.6	.0	.0	.0	.0	.6	.6	.0	.6	3.1	
2<5	NO PCP	. 6	.0	.0	.0	.0	2.2	.9	1.3	.0	.0	5.0	
	TOT %	1.3	.6	• 0	.0	.0	2.2	1.6	1.9	.0	.6	8.1	
	PCP	2.7	1.1	.3	.0	.6	.6	2.8	7.5	.0	.0		
5<10	NO PCP	6,3	1.4	.0	.0	3.4	4.8	2.7	15.8	.0	.6	35.0	
	TOT %	8,9	2.5	,3	.0	4.1	5.5	5,5	23.3	.0	.6	50.6	
	PCP	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0		
10+	NO PCP	2.2	1.1	1.9	. 9	2.3	3.1	10.2	3.3	.0	1,3	26.3	
	TOT \$	2.2	1.1	1.9	. 9	2.3	3.1	11.4	3.3	.0	1.3	27.5	
	TOT HBS												160
	TOT PCT	16.1	4.8	2.2	. 9	7.0	14.8	20.6	30.9	.0	2,5	100.0	

TABLE 9

									ISIBIL		ED		
VSBY (NM)	SPD KTS	N	NE	E	SE	s	SW	W	NW	VAR	CALM		TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.5	.0	.0	.0	.5	.0	.0	.0	.0		1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	224	.0	.0	.0	.0	.0	.5	.5	. 5	.0		1.6	
	TOT %	.5	.0	.0	.0	.5	.5	.5	.5	.0	.0	2.7	
	0-3	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5	
1/2<1	4-10	. 8	.3	.0	.0	.0	1.1	.0	.0	.0		2.2	
	11-21	.5	.0	.0	.0	.0	. 8	1.1	1.4	.0		3.8	
	22+	1.5	.1	.0	.0	.0	.0	. 3	. 3	.0		2.2	
	TOT %	3.1	.4	.0	.0	.0	1.9	1.4	1.9	.0	.0	8.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	4-10	.0	.0	.0	.0	.0	.5	.0	.0	.0		.5	
	11-21	. 8	.3	.0	.0	.0	.0	.0	.0	.0		1.1	
	224	. 5	.0	.0	.0	.0	.5	.5	.0	.0		1.6	
	TOT \$	1.4	.3	.0	.0	.0	1.1	.5	.0	.0	.0	3.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5		
245	4-10	1.1	.0	.0	.0	.0	1.4	. 3	.5	.0		3.3	
	11-21	.0	.0	.0	.0	.0	.5	. 8	1.4	.0		2.7	
	22+	.3	.5	.0	.0	.0	.0	.5	. 8	.0		2.2	
	TOT \$	1.4	.5	.0	,0	.0	1.9	1.6	2.7	.0	.5	8.7	
	0-3	.3	.5	.3	.0	.0	.0	.0	.0	.0	.3	1.6	
5<10	4-10	3.4	. 1	.5	.0	.3	1.9	,5	5.7	.0		12.6	
	11-21	1.5	1.6	.0	.0	1.6	2.5	1.9	6.7	.0		15.8	
	224	3.4	.4	.3	.0	1.6	1.0	2.3	8.5	.0		17.5	
	TOT %	8.6	2.7	1.1	.0	3.6	5.3	4.8	20.9	.0	.5	47.5	
	0-3	.0	.5	.0	.0	.0	.0	. 8	.3	.0	1.1	2.7	
10+	4-10	.5	.0	.5	1.1	1.0	.7	1.4	. 8	.0		6.0	
	11-21	1.5	.4	.3	.0	1.6	1.5	5.1	2.2	.0		12.6	
	224	.4	.0	1.1	.0	.0	. 5	3.8	1.8	.0		7.7	
	TOT \$	2.5	1.0	1.9	1.1	2.6	2.7	11.1	5.1	.0	1.1		
,	ent pas												183
	TTO TO	17.5	4.0	3.0	1.1	4.7	13.5	10.9	31.1	- 0	2.2	100.0	

AREA 0025 MAGELLAN STRAIT WEST 53.88 73.88

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150	300	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	.0	11.1	.0	11.1	22.2	11.1	.0	.0	.0	.0	55.6	44.4	9
90300	.0	7.1	7.1	14.3	7.1	21.4	.0	7.1	.0	7.1	71.4	28.6	14
12615	.0	.0	15.4	30.8	7.7	.0	15.4	.0	.0	.0	69.2	30.8	13
18821	.0	.0	5.3	26.3	15.8	5.3	10.5	.0	.0	5,3	68.4	31.6	19
TOT	0	, 2		. 12	7	5	7 4	, 1	0	2	37	18	55

TABLE 11

TABLE 12

					-							-		
		PERCENT	PREQUE	NCY V58Y	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 50	TOTAL
E0300	5.9	.0	2.9	8.8	61.8	20.6	34	00403	.0	14.3	28.6	28.6	42.9	7
90360	1.5	13.8	3.1	7.7	41.5	32.3	65	90300	.0	21.4	42.9	28,6	28.6	14
12615	9.1	9.1	3.0	6.1	45.5	27.3	33	12615	.0	23.1	53.8	15.4	30.8	13
18821	.0	8.9	3.6	10.7	44.6	32.1	56	18821	.0	5.3	36.8	31.6	31.6	19
TOT	3.2	17	3.2	16 8.5	46.8	29.3	188	TOT	.0	15.1	41.5	26.4	17 32.1	53 100.0

TABLE 12

TABLE 14

					MOLE 13	•									, -0.					
	PERC	ENT FR	EQUENC	Y OF R	ELATIVE	E HUMI	8 YT10	Y TEMP	TOTAL	PCT		PERC	ENT FRE	QUENC	Y DF W	IND DI	RECTIO	N BY TI	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	.0	.0	. 5	.0	1	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
50/54	.0	.0	.0	.0	.0	1.6	4.3	2.7	16	8.6	.9	.1	.0	.0	.0	1.7	2.6	3.2	.0	.0
45/49	.0	.0	.0	.0	1.1	7.0	15.1	9.7	61	32.8	4.8	.1	.5	.0	.0	6.0	5.0	14.1	.0	2.2
40/44	.0	.0	.0	1.1	2.2	5.9	8.1		66	35.5	9.9	.4	2.2	.0	2.2	5.2	7.4	7.7	.0	.5
35/39	.0	.0	.0	1.1	2.7	2.2	4,3	10.2	38	20.4	1.7	.4	.0	.0	3.9	5.2	3.8	4.8	.0	.5
30/34	.0	.0	.0		.0	1.1	.0			2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0
TOTAL	0	0	0	4	11	33	60	78	186	100.0										
PCT	-0	.0	-0	2.2	5.9	17.7	32.3	41.9	-		17.5	1.6	2.7	.0	6.0	18.3	20.8	29.8	.0	3.2

TABLE 15

	MEANS,	EXTREMES	AND	PERCEN	TILES	DF TEM	I DEG	F)	BY HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	18	MIN	MEAN	TOTAL
00803	55	50	48	43	35	33	30	42.3	237
90300	55	51	49	42	35	31	28	41.9	470
12815	51	50	49	42	34	31	26	41.7	224
18821	55	50	48	42	35	31	28	41.9	761
TOT	55	50	49	42	35	31	26	41.9	1692

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	BY HOUR	ı
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60300	.0	.0	4.8	11.9	38.1	45.2	87	42
90300	.0	.0	8.9	17.9	33.9	39.3	86	56
12615	.0	6.7	3.3	10.0	36.7	43.3	85	30
15821	.0	3.1	4.7	23.4	26.6	42.2	84	64
TOT	0		11	33	63	81	85	102

MAY

PERIOD: (PRIMARY) 1902-1975 (DVER-ALL) 1869-1975

TABLE 17

AREA 0025 MAGELLAN STRAIT WEST 53.85 73.8W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIF	33 36	37	41	45	49 52	53 56	TOT	FOG	FOG
9/10	.0	,0	.0	.0	.7	.0	1	.0	.7
6	.0	.0	.0	.0	.0	1.5	1 2	.0	1.5
5	.0	.0	.0	.7	.7	.0	10	.0	1.5
4	.0	.0	1.5	3.6	2.2	.0	10	1.5	5.8
3	.0	.0	1.5	3.6	.0	.0	7	.0	5.1
0 -1	.0	1.5	1.5	7.3	1.5	.0	16	.7	10.9
ī	.0	.7	6.0	.7	.7	.0	12	2.2	6.6
ō	.0	.7	9.5	2.2	.7	.0	18	2.9	10.2
-1	.0	.0	8.0	2.9	.0	.0	15	1.5	9.5
-2	.0	.7	.7	1.5	.0	.0	4	.0	2.9
-3	.7	5.8	.0	.7	.0	.0	10	.0	7.3
-4	.0	5,8	.7	.0	.0	.0	9	.0	6.6
-5	.7	2.9	1.5	. 7	.0	.0	8	.0	5.8
-6	.7	2.9	.7	.0	.0	.0	6	.7	3.6
-7/-8	.0	5.1	1.5	.0	.0	.0	9	.7	5.8
-9/-10	.7	1.5	.7	.0	.0	.0	8 9 4	.0	2.9
-11/-13	2.2	.7	.0	.0	.0	.0	4	.0	2.9
TOTAL	7		47		9			14	123
		39		33		2	137		
PCT	5.1	28.5	36.3	24.1	6.6	1.5	100.0	10.2	89.8

PERIOD: (DVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) 11-21 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 FF TOT PCT 4-10 1-3 1-3 34-47 34-47 HGT 41 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 23-25 26-32 23-25 24-40 41-48 49-60 61-70 71-86 87+ 70 PCT 1-3 4-10 11-21 1-3 4-10 484 11-21

	MAY	
PERIOD: (DVER-ALL) 1963-1975		AREA 0025 MAGELLAN STRAIT WEST
	TABLE 18 (CONT)	53,85 73.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

				s							• 4				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	5.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	
10-11	.0	.0	.0	5.3	.0	.0	5,3	.0	.0	.0	.0	- 0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	• 0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0	:0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
87+	.0	.0	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	5.3	.0	.0	5,3	.0	.0	5.3	1.3	.0	.0	6.6	
				w							NU				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	.0	.0	.0	6.6	
3-4	.0	.0	• 0	.0	.0	.0	14.5	.0	.0	.0	1.3	.0	.0	1.3	
5-6	.0	.0	5,3	9.2	.0	.0	14.5	.0	.0	.0	6.6	.0	.0	6.6	
7	.0	.0	5.3	3.9	.0	.0	9.2	.0	.0	.0	1.3	. 0	.0	1.3	
8-9	.0	.0	•0	3.9	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	•0	10.5	.0	10,5	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	•0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	
17-19 20-22	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	3.9		.0	.0	3.9	.0	.0	1.3	.0	.0	.0	1.3	
26-32	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0	.0	:0	.0	.0	
61-70	.0	.0	:0	.0	.0	.0	:0	.0	.0	.0	.0	:6	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	14.5	17.1	10.5	.0	42.1	.0	.0	7.9	9.2	.0	.0	17.1	94.7

MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)
1-3	4-10	11 21	22-22	34-47	40.

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TDT
<1	5.3	5,3	. 0	.0	.0	.0	10.5	003
1-2	.0	.0	10.5	.0	.0	.0	10.5	
3-4	.0	.0	.0	5.3	.0	.0	5.3	
5-6	.0	.0	10.5	15.8	.0	.0	26.3	
7	.0	.0	5.3	5,3	.0	.0	10.5	
8-9	.0	.0	.0	5,3	.0	.0	5.3	
10-11	.0	.0	.0	5,3	.0	.0	5.3	
12	.0	.0	.0	.0	10.5	.0	10.5	
13-16	.0	.0	.0	.0	10.5	.0	10.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	5.3	.0	.0	.0	5.3	
23-25	.0	.0		.0	.0	.0		
26-32	.0	.0		.0	.0	.0	.0	
33-40	.0		.0		.0			
		.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
				24 0				19

PERIOD: (DVER-ALL) 1950-1975 TABLE 19 PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	.0	8.3	.0	5.6	5.6	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
6-7	.0	.0	2.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
8-9	.0	.0	.0	.0	.0	5.6	2.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
10-11	.0	.0	.0	.0	2.8	11.1	8.3	2.8	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	14
>13	.0	.0	.0	.0	.0	.0	.0	.0		.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	1	20
INDET	19.4	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	0
TOTAL	7	4	1	2	4	7	4	1	5	0	1	0	0	0	0	0	0	0	0	36	7
PCT	19.4	11.1	2.8	5.6	11.1	19.4	11.1	2.8	13.9	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD:	(PRIMARY)	1900-1977
	(DVER-ALL)	1870-1977

AREA 0025 MAGELLAN STRAIT WEST 54.05 73.9W

DEDCENT E	DENIENCY	DE	MEATHER	DECURRENCE	 HIND	DIRECTION

			P	RECIPI	TATIO	TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	SIG WEA
N	.0	20.0	25.0	.0	.0	.0	.0	45.0	.0	.0	.0	.0	.0	.0	55.0
NE	.0	.0	.0	.0	15.4	.0	.0	15.4	.0	.0	.0	.0	.0	.0	84.6
E	.0	8.9	.0	.0	.0	.0	.0	8.9	.0	.0	8.9	.0	.0	.0	82.2
SE	22.2	.0	7.4	.0	.0	.0	.0	29.6	14.8	.0	.0	.0	.0	.0	55.6
S	5.3	10.5	15.8	.0	5.3	.0	5.3	42.1	.0	.0	36.8	.0	.0	.0	21.1
SW	.0	9.4	9.4	.0	9.4	.0	3.1	31.3	.0	.0	34.4	.0	.0	.0	34.4
W	.0	10.7	17.9	.0	3.6	.0	.0	32.1	.0	.0	10.7	14.3	.0	.0	42.9
NW	5.3	5.3	9.2	.0	2.6	.0	.0	22.4	.0	.0	7.9	.0	.0	.0	69.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.4	8.0	10.2	.0	4.5	•0	1.1	27.3	1.1	.0	14.8	2.3	.0	.0	54.5

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SHOKE	SPRAY BLMG DUST BLMG SNOW	
00603 06609 12615 18621	11.5	5.0 3.8 14.3 10.0	5.0 7.7 21.4 10.0	.0	10.0 3.8 .0 6.7	.0	3.8 .0	20.0 30.8 35.7 26.7	5.0 .0 .0	.0	15.0 15.4 21.4 10.0	.0 7.1 3.3	.0	.0	60.0 53.8 35.7 60.0
TOT PCT	3.3	7.8	10.0	.0	5.6	•0	1.1	27.8	1.1	.0	14.4	2.2	.0	.0	54.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KNO	(STC								HOUR	(GHT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	PCT	MEAN	00	03	06	09	12	15	18	21	
							OBS	FREQ	SPD	***		-					-	
N	.3	1.6	2.1	2.5	1.1	.7		8.1	23.4	5,7	.0	8.1	7.3	8,2	.0	9.5	7.8	
NE	.2	1.6	2.1	.7	.3			5.1	15.8	6,8	.0	4.3	4.1	3.7	.0	5.1	6.4	
E	.6	2.1	2.2	.6	.2	.0		5.7	12.9	6.7	.0	5.0	5.8	4.9	.0	6.1	4.9	
SE	.4	1.9	2.9	1.3	.3			6.9	15.6	9,2	.0	6.9	5.8	6.9	.0	6.1	7.9	
S	.6	3.0	3.0		1.2	.3		10.5	19.1	9,5	.0	16.7		7.6	.0	8.7	9.3	
SW	.5	4.3	6.6		2.8	1.3		22.1	22.4	21.5	.0			25.1	.0	20.7	22.5	
w			7.0		3,5	2.4		22,4	24.7	22.8	.0	20.3	17.8	23.1	.0	24.6	22.2	
	.6	3.2																
NW	.4	2.5	6.7	5.1	2.3	1.3		18.2	23.2	17.3	.0	18.2		20.6	.0	17.6	17.9	
VAR	.0	.0	.0	.0	.0	.0		.0	• C	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1							1.1	.0	.5	.0	.5	1.9	.0	.0	1.6	1.1	
TOT OBS	72	321	517	396	187	96	1589		21.2	202	0	213	216	208	0	570		
TOT PCT	4.5	20.2		24,9	11.8	6.0		100.0		100.0	.0		100.0		.0	100.0	100.0	

-	-	٠	-	-	

WNO DIR	0=6	WIND 7-16	SPEED 17-27		41+	TOTAL DBS	PCT	MEAN SPD	00	HDUR 06 09	12 15	18 21
N	:	2.2	2.0	2.1	1.0		8.1	23.4	5.7	7.7	8.2	9.1
NE	. 9	2.0	1.5	.5	. 1		5.1	15.8	6.8	4.2	3.7	5.4
E	1.6	2.2	1.5	.3			5.7	12.9	6.7	5.4	4.9	5.8
SE	1.1	2.7	2,5	.4	.2		6.9	15.6	9.2	6.4	6.9	6.6
5	2.0	3.0	2,8	1.7	1.0		10.5	19.1	9.5	15.3	7.6	8.8
SW	2.1	6.0	6,8	4.4	2.8		22.1	22.4	21.5		25.1	21.1
W	1.7	5.9	6.7	4.1	4.0		22.4	24.7	22.8	19.1	23.1	24.0
NW	1.3	4.9	5,8	3.8	2.4		18.2	23.2	17.3	18.4	20.6	17.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1		•				1.1	.0	.5	1.2	.0	1.5
TOT DBS	199	460	471	275	184	1589	100000	21.2	202	429	208	750
-01 005		20 0			11 4	-	100 0			100 0		

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								00112							
PER100:	(PRIMARY) (OVER-ALL)	1900-197 1870-197						TABLE 4				AREA	0025 MAGEL	LAN STRAIT	WEST
				PER	CENTAGE	FREGUE	ENCY DF	WIND SP	EED BY	HOUR	(GMT)				
							SPEED (PCT	TOTAL			
		HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	085			
		00603	.5	2.0	22.3	34.7	24.3	10.4	5.9		100.0	202			
		90300	1.2	3.5	19.6	35.7	21.9	11.0	7.2	21.4	100.0	429			
		12615	.0	5.3	21.6	30.8	26.9	13.0	2.4	20.3	100.0	208			
		18621	1.5	3.3	19.6	30.7	26.3	12.3	6.4	21.5	100.0	750			
		TUT	17	55	321	517	396	187	96	21.2		1589			
		PCT	1.1	3.5	20.2	32.5	24.9	11.8	6.0		100,0	••••			

			Τ,	ARLE 5								T	ABLE 6					
	PCT FRE		OTAL (CLOUD A		(EIGHTHS)							CEILIN NH <5/					
WND DIR	0-2	3-4	5-7	8 &	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL
N	.0	.0	•0	7.1		8.0	.0	.0	.0	.0	3.6	3.6	.0	.0	.0	.0	.0	
NE	4.8	.0	• 0	.0		2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	
E	.0	.0	3.6	4.8		7.5	.0	.0	.0	.0	3.6	.0	.0	4.8	.0	.0	.0	
SF	.0	4.8	6.0			5,6	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	9.5	
S	.0	.0	9.5	.0		6,5	.0	4.8	.0	.0	4.8	.0	.0	.0	.0	.0	.0	
SW	.0	.0	14.3	4.8		6,5	.0	.0	.0	4.8	14.3	.0	.0	.0	.0	.0	.0	
W	.0	4.8	4.8	4.8		5,6	.0	.0	.0	.0	.0	.0	9.5	.0	.0	.0	4.8	
NW	4.8	.0	4.8	16.7		6.1	.0	.0	4.8	.0	10.7	6.0	.0	.0	.0	.0	4.8	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS		2	9		21	6.1	0	1	1	1	8	2	2	1	0	0	5	21
TOT PCT		9.5	42.9	38.1	100.0		.0	4.8	4.8	4.8	38.1	9.5	9.5	4.8	.0	.0	23.8	100.0

					TABL	E 7A					
		P	ERCENTA	GE FR	EQ OF	LOW	CL	0005	EIGHT	HS)	
0	1	2	3	4	5		6	7	8	OBSCO	TOTAL
4.5	9.1	.0	9.1	.0	13.6	22	,7	13.6	27.3	.0	22

									JUNE							
PERIOD:	(DVEK-ALL)	1900-1977 1870-1977						TA	BLE 8				ARE	A 0025	N STRAIT	T WEST
			P	RCENT	PREC	OF WIN	D DIRE	CTION TH VAR	VS DCC	ALUES	E OR N	IBILIT	URKENC	E DF		
	VSBY (NM)		N	NE	ε	SE	s	SW	*	NW	VAR	CALM	PCT	TOTAL		
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	<1/2		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
		TOT *	.0	.0	• 0	.0	.0	.0	•0	.0	.0	.0	.0			
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	1/24	NO PEP	.0	.0	.0	.0	.0	.0	. 6	1.7	.0	.0	2.3			
		TOT &	.0	.0	.0	.0	.0	.0	.6	1.7	.0	.0	2.3			
		PCP	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	2.3			
	1<2	NO PCP	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1			
		TOT *	.0	.0	.0	.0	1.1	1.1	1.1	.0	.0	.0	3.4			
		PCP	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1			
	2<5	NO PEP	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	2.3			
		TOT \$.0	.0	.0	.0	.0	2.3	1.1	.0	.0	.0	3.4			
		PCP	2.6	1.1	1.1	2,3	3.4	3.4	5.1	4.8	.0	.0	23.9			
	5<10	NO PEP	3.1	3.4	8.8	4.3	5.1	9.1	6.8	12.8	.0	.0	53.4			
		TOT \$	5.7	4.5	9.9	6,5	8,5	12.5	11.9	17.6	.0	.0	77.3			
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	10+	NO PEP	.0	2.8	2.8	1.1	1.1	2.3	1.1	2.3	.0	.0	13.6			
		TOT #	.0	2.8	2.8	1.1	1.1	2.3	1.1	2.3	.0	.0	13.6			
		TOT MUS												88		
		TOT PGT	5.7	7.4	12.8	7.7	10.8	18.2	15.9	21.6	.0	.0	100.0			

				_		_							
(NM)	KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	рСт	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$	•0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.4	1.3	.0		1.8	
	11-21	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	.0	.0	.0	.0	.4	1.3	.0	.0	1.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
142	4-10	.0	.0	.0	.0	.9	.0	.9	.0	.0		1.8	
	11-21	.0	.0	.0	.0	.0	. 9	.0	.0	.0		.9	
	22+	. 9	• 0	.0	.0	.0	.0	.0	.0	.0		.9	
	TOT \$.9	•0	•0	.0	, 9	.9	.9	.0	.0	.0	3.5	
	0-3	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0		
245	4-10	.0	• 0	.0	.0	.0	.0	. 9	.0	.0		.9	
	11-21	.0	• 0	.0	.0	.0	. 9	.0	.0	.0		.9	
	22+	.0	• 0	.0	.0	.0	.0	.0	.0	.0	-	.0	
	TOT \$.0	•0	•0	•0	.0	1.8	.9	.0	.0	.0	2.6	
	0-3	.0	.0	2.6	.4	.4	.0	.0	.0	.0	.0		
5<10	4-10	. 9	2.6	.9	1.8	2.2	4.4	1.3	1.8	.0		15.8	
	11-21	2.0	.9	3.3	1.5	2.2	3.1	7.0	9.0	.0		28.9	
	22+	1.5	.0	.9	1.3	1.8	2.2	1.5	3.1	.0		12.3	
	TOT \$	4.4	3.5	7.7	5.0	6.6	9,6	9.9	13.8	.0	.0	60.5	
	0-3	.0	•0	.9	.9	1.3	1.3	.0	1.8	.0	.0		
10+	4-10	. 9	1.3	1.8	1.3	4.8	2.2	.7	1.1	.0		14.0	
	11-21	.0	.9	.0	.0	.4	.4	. 9	3.5	.0		6.1	
	22+	.0	.0	.0	.0	.4	2.2	.0	2.6	.0		5.3	
	TOT \$. 9	2.2	2.6	2.2	7.0	6.1	1.5	9.0	.0	.0	31.6	
	TOT 085												114
1	TOT PET	6.1	5.7	10.3	7.2	14.5	18.4	13.6	24.1	.0	.0	100.0	

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PERIOD: (PRIMARY) 1900-1977 (OVER-ALL) 1870-1977

TABLE 10

AREA 0025 MAGELLAN STRAIT WEST 54.05 73.98

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL	
60300	.0	12.5	•0	.0	50.0	12.5	.0	.0	.0	.0	75.0	25.0	8	
90360	.0	.0	50.0	•0	50.0	.0	.0	.0	.0	.0	100.0	.0	2	
12615	.0	.0	•0	.0	33.3	33.3	33.3	.0	.0	.0	100.0	.0	3	
18621	.0	.0	•0	11.1	33.3	.0	11.1	11.1	.0	.0	66.7	33.3	9	
TOT	.0	4.5	4.5	4.5	40.9	9.1	9.1	4.5	0	0	77.3	22.7	100.0	

TABLE 11

TABLE 12

		PERCENT	FREQUEN	ICY VSBY	(MM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00803	•0	4.0	4.0	4.0	36.0	32.0	25	00803	.0	14.3	28.6	42.9	28.6	7
06609	.0	.0	2.9	.0	70.6	26.5	34	90300	.0	50.0	50.0	50.0	•0	2
12615	.0	.0	.0	5.0	60.0	35.0	20	12615	.0	.0	.0	100.0	•0	3
18621	•0	2.7	5.4	5.4	54.1	32.4	37	18821	.0	.0	33.3	33,3	33.3	9
TOT	0	1.7		3.4	70	36	116	TOT	0	2	28.6	10	22 9	21

TA		1	12

TABLE

	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY B	Y TEMP		PCT		PERC	ENT FR	EQUEN	Y OF 1	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DES	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0		.0	1.0	9.1	.0		4.1	.0	.0	.0	.0	1.0	1.0	1.0	1.0	.0	.0
45/49	.0	.0	.0	.0	.0	2.0		2.0	5	5.1	. 8	.0	.0	1.0	.0	1.0	1.0	1.3	.0	.0
40/44	.0	.0	.0	.0	1.0	6.1	16.3	15.3	38	38.8	4.1	5.1	4.3	2.0	1.0	2.6	8.7	11.0	.0	.0
35/39	.0	.0	.0	.0	2.0	2.0	11.2	24.5	39	39.8	1.0	.0	9.2	3.6	2.6	10.5	9.7	3.3	.0	.0
30/34	.0	.0	.0	.0	1.0	2.0	3.1	2.0		8.2	.0	1.0	.0	2.0	1.5	3.6	.0	.0	.0	.0
25/29	.0	.0	.0	.0	.0	4.1	.0	.0		4.1	.0	.0	.0	.0	4.1	.0	.0	.0	.0	.0
TOTAL) 0	0	. 0	4	17	34	43	98	100.0		• •	• •	-		• • •				
							94 9		-										- 3	

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TABLE 16

	MEANS,	EXTREM	ES AND	PFRCE	MTILES	OF TE	MP (DE	G F) 8	Y HOUR		PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	-	
HOUR (GMT)	MAX	99%	95%	50%	5%	1*	MIN	MEAN	TOTAL	HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00603	50	49	46	41	33	30	29	40.3	199	00603	.0	.0	5.0	10.0	45.0	40.0	86	20
90300	50	48	46	41	32	28	27	40.2	425	90300	.0	.0	3.6	17.9	46.4	32.1	86	28
12615	48	47	46	40	32	30	28	40.0	205	12615	.0	.0	5.0	30.0	20.0	45.0	85	20
18621	52	49	46	40	33	30	26	40.1	736	18621	.0	.0	3.1	12.5	28.1	56.3	88	32
TOT	52	48	46	40	33	30	26	40.1	1565	TOT	0	0	4	17	35	44	87	100

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JUNE

PERIOD: (PRIMARY) 1900-1977 (OVER-ALL) 1870-1977

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TABLE 17

AREA 0025 MAGELLAN STRAIT WEST 54.05 73.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

								•		
AIR-SEA TMP DIF	25 28	32	33 36	37 40	44	45 48	49 52	TOT	FOG	FOG
3	.0	.0	.0	.0	2.5	1.3	1.3	2	.0	8.9
2	.0	.0		.0	6.3	1.3	1.3	7	.0	8,9
1	.0	.0	1.3	.0	5.1	.0	.0	5	.0	6.3
0	.0	.0		1.3	3.8	1.3	.0	5	1.3	5.1
0 -1	.0	.0	.0	10.1	3.8	1.3	.0	12	5.1	10.1
-2	.0	.0	1.3	13.9	1.3	.0	1.3	14	.0	6.3 5.1 10.1 17.7
-2	.0	.0	.0	7.6	.0	.0	1.3	7	2.5	0.3
-4	.0	.0	.0	8.9	1.3	.0	1.3	9	.0	6,3
-5	.0	.0	2.5	3.8	.0	.0	.0	9	.0	6,3
-4 -5 -6	.0	.0	1.3	2.5	1.3	0000	.0	3 7	.0	3.8 7.6 3.8
-7/-8	1.3	2.5	3.8	2.5	1.3	.0	.0	7	1.3	7.6
-11/-13	.0	.0	1.3	2.5	.0	.0	.0	3	.0	3.8
TOTAL	1		9		20		4		8	71
		2		40		3		79		
PCT	1.3	2.5	11.4	50.6	25.3	3.8	5.1	100.0	10.1	89.9

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 22-23-25 26-32 33-25 26-32 49-60 61-70 71-86 1-3 4-10 11-21 48+ 1-3 HGT 41 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 26-32 23-25 26-32 33-40 41-48 49-60 61-70 71-86 71-86 34-47 48+ 11-21 34-47 48+ 4-10 11-21 PCT 9.11 1-3 4-10

PERIOD: (DVER-ALL)	1941 1949	JUNE	AREA 0025 MAGELLAN STRAIT WEST
PERIOD: TOVER-ALL!	1,03-14/	TABLE 18 (CONT)	54.05 73.9W

CT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT

				PC	T FREQ	OF WIND	SPEED	(KTS) AN	D DIREC	CTION V	ERSUS S	EA HEIG	HTS (FT)			
HGT	1-3	4-10	.1	\$ 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	11-21		.0		.0		.0	.0	.0			.0	PCT	
1-2	.0	18.2	.0	.0	.0	.0	18.2		.0	9.1	.0	.0	.0	.0	9.1	
3-4	.0	10.2	.0	.0	.0		10.2		.0	.0	.0		:0	.0		
5-6		.0	.0	.0	.0	.0	.0		.0	.0	9.1	.0	:0	.0	.0	
7	.0		•"	.0	.0		• 0		.0	.0	.0	.0	• 0	.0	9.1	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0	.0	
10-11		:0	.0	.0		.0	.0		.0	.0	.0	.0	:0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	:0	.0	.0	
17-19	.0	.0	.0	.0		.0	.0		.0	:0			:0		.0	
20-22	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0		.0	
33-40	.0		.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+ TOT PCT	.0	.0	.0	•0	.0	.0	.0		.0	9.1	.0	.0	.0	.0	.0	
101 PC1	•0	18.2	.0	•0	.0	.0	18,2		.0	7.1	9.1	.0	.0	.0	18.2	
				w								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-2	.0	18.2	.0	.0	.0	.0	18,2		.0	9.1	.0	.0	.0	.0	9.1	
3-4	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	2.3	.0	.0	.0	2.3	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	9.1	.0	.0	9.1	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	,0	.0	.0	
12	.0	.0	•0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	• 0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	• 0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	18.2	٠.	.0	.0	.0	18,2		.0	9.1	2.3	9.1	.0	.0	20.5	100.0

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	9.1	.0	.0	.0	.0	.0	9.1	003
1-2	.0	63.6	.0	.0	.0	.0	63.6	
3-4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	18.2	.0	.0	.0	18.2	
7	.0	.0	.0	9.1	.0	.0	9.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								11
INT PCT	9.1	63.6	18.2	9.1	.0	.0	100.0	

PERIOD	: (DV	ER-ALL	196	0-1977					TABLE	19											
					PERCEN	T FRE	QUENCY	OF WA	VE HE !	GHT (F	7) VS	HAVE P	ER100	SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	67+	TOTAL	MEAN
<6	.0	13.3	13.3	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
6-7	.0	.0	.0	6.7	.0	6.7	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
8-9 10-11	.0	.0	.0	.0	.0	20.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		9
10-11	.0	.0	.0	.0	.0	.0	6.7	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	13
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	•
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	1	0
TOTAL	1	2	2	2	0	4	1	2	0	1	0	0	0	Ö	0	0	0	0	0	15	7
PCT	6.7	13.3	13.3	13.3	.0	26.7	6.7	13.3	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

0

3

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.8W

PERCENT FREQ	UENCY DF	WEATHER	DCCURRENCE	BY	WIND	DIRECTION
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					EVEEN	FREQU	ENCT	P NEATHER	DCCOKKENCE	BY WI	ND DIK	ECTION			
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SMOW	DTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	14.1	4.4	2.2	.0	.0	.0	.0	20.7	8.1	.0	20.7	.0	.0	.0	50.4
NE	13.9	11.1	5.6	.0	.0	.0	.0	30.6	.0	.0	.0	.0	.0	.0	69.4
E	5.1	.0	5.1	.0	.0	.0	10.3	20.5	.0	.0	5.1	.0	.0	.0	74.4
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	71.4
S	.0	.0	.0	.0	12.2	.0	.0	12.2	18.4	.0	12.2	.0	.0	8.2	49.
SW	.0	7.3	.0	.0	23.3	.0	.0	32.6	4.7	.0	7.0	.0	.0	.0	55.
W	10.7	14.8	1.6	.0	8.2	.0	1.6	33.6	5.7	.0	.0	.0	.0	.0	60.
NW	31.4	14.5	10.5	.0	3.6	.0	. 9	59.1	5.9	.0	1.8	.0	.0	.0	33.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	14.3	.0	.0	.0	71.4
TOT PCT TOT DBS:	14.7	9.2	4.3	.0	6.0	.0	1.1	34.2	6.5	.0	7.6	•0	•0	.5	51.1

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	18.4 14.3 16.7 9.8	7.9 12.5 4.8 9.8	2.6 5.4 4.8 3.9	.0	7.9 8.9 .0 7.8	.0	3.6	36.8 41.1 26.2 31.4	7.9 3.6 9.5 5.9	.0	5.3 10.7 7.1 5.9	.0 .0	.0	.0	50.0 44.6 57.1 54.9
TOT PCT	14.4	9.1	4.3	.0	6.4	.0	1.1	34.2	6.4	.0	7.5	•0	•0	,5	51.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			22-33		48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HDUR 09	(GMT)	15	18	21
N_	.3	1.5	2.9	2.4	1.7	1.1		10.0	24.8	11.7	22.2	9.6	9.1		33.3	8.7	10.4
NE	. 2	1.9	1.6	. 8	.7	.1		5.3	17.3	7.3	.0	7.6	5.5	3.5	16.7	4.2	4.5
E	. 3	1.3	1.4	.7	.4			4.0	16.2	5.2	5.6	3.0	3.9	4.4	16.7	3.4	5.1
SE	.2	1.4	2.1	1.2	.2	. 1		5.2	17.0	5.8	11.1	4.5	5.1	4.2	.0	4.8	8.0
S	.3	2.2	3.2	1.7	1.2	. 3		8.9	20.0	6.9	5.6	8.5	9.5	6.5	.0		7.8
SW	.7	3.2	6.0	4.4	3.7	1.3		19.4	23.3	20.1	11.1	18.6	18.7	17.7	.0	21.1	17.7
W	.4	3.7	7.0	6.7	4.4	1.9		24.1	24.7	20.9	5.6	24.2	22.4	24.2	.0		25.9
NW	.5	2.0	5.0	6.6	5.0	2.9		22.0	29.0	21.0	38.9	22.6		25.1	33.3		20.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.2	• •	•	•	••	•		1.2	.0	1.1	.0	1.4	2.1	2.9	.0	.6	. 3
TOT OBS	82	350	599	502	356	158	2047		23.5	279	9	291	284	279		680	222
TOT PCT	4.0	17.1	29.3	24.5	17.4	7.7	2041	100.0							100.0	100.0	

WNO DIR	0-6	7-16	SPEED 17-27		41+	TOTAL OBS	PCT	MEAN SPD	00	HDUF 06 09	12 15	18 21
N NE	1.0	2.1	3.2	2:1	1.6		10.0	24.8	12.1	9.3	11.8	9.1
		1.6	.9	.5	.2		4.0	16.2	5.2		4.5	3.8
SE	. 6	2.0	1.8	.6	.2		5.2	17.0	6.0	4.8	4.2	5.6
5	1.1	2.9	2,3	1.7	. 8		8.9	20.0	6.9	9.0	6.5	10.3
SW	2.0	4.9	5,3	4.6	2,5		19.4	23.3	19.8	18.7	17.5	20.3
W	1.5	6.2	6.9	5.7	3.7		24.1	24.7	20.4	23.3	23.9	25.8
NW	1.1	3.3	6.2	6.6	4.7		22.0	29.0	21.5	23.1	25.2	20.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	1.0	1.7	2.8	.4
TOT OBS	212	515	572	462	286	2047		23.5	288	575	282	902
TOT PCT	10.4	25.2	27.9	22.6	14.0		100.0		100.0	100.0	100.0	100.0

PERIODI	(PRIMARY)	1899-1977
	(DVER-ALL)	1054 1077

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.8W

PERCENTAGE	FREQUENCY	OF	WIND	SPEED	BY	HOUR	(GMT)

HUUR	CALM	1-3	4-10	11-51 HIND		KNOTS) 34-47	48+	MEAN	PCT	TOTAL
00603	1.0	2.8	19.8	29.9	25.7	12.8	8.0	22 4	100.0	288
96330	1.7	3.0	16.5	28.3	27.1	15.3	8.0		100.0	575
12615	2.8	1.8	14.9	28.4	24.8	19.5	7.8		100.0	282
18621	.4	3.0	17.3	29.9	22.4	19.5	7.4	23.8	100.0	902
TOT	25	57	350	599	502	350	158	23.5		2047
PCT	1.2	2.8	17.1	29.3	24.5	17.4	7.7		100.0	

TABLE

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	TANCE 7											1.	ABLE O					
	PCT FRE			DIREC		(EIGHTHS)							CEILIN					
WND DIR	0-2	3-4	5-7	08500	TOTAL	COVER	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N	.5	1.9	1.9	13.7		7.2	.0	1.1	.0	2.5	9.6	1.4	1.1	.0	.0	.0	2.5	
NE	.5	.0	2.2	. 3		6.1	.0	.0	.0	. 3	1.6	.0	.0	.0	.0	.0	1.1	
E	.0	1.1	.5	2.2		6.4	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	1.6	
SE	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5	. 8	3.8	2.2	.0		3.9	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	5.8	
SW	2.5	.5	3.3	1.1		4.9	.0	.0	.0	2.2	.0	1.1	.0	.0	.0	.0	4.1	
w	1.1	1.1	6.6	6.3		6.1	.0	.0	1.1	.0	3.0	1.1	2.2	.0	.0	.0		
NW	2.2	. 3	4.1	31.3		7.4	2.2	.0	.0	3.8	17.6	4.1	6.6	.0	.0	.0	3,6	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	1.1	1.1	5.5		7.1	1.1	.0	1.1	1.1	1.1	.0	2.2	.0	.0	.0		
TOT OBS	7		20	55	91	6.7	***3	2	2		32	• • •	11	.0	.0	.0	25	91
TOT PCT	7.7	9.9	22.0	60.4	100.0		3,3	2.2	2.2	9.9	35.2	7.7	12.1	.0	.0	.0		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING MEIGHT (NM >4/8) AND VSBY (NM)

										15
						VSBY (N	1)			
	CE	ILING	• OR	- OR	- DR	• OR	- DR	- OR	· OR	= DR
	(F	EFT)	>10	>5	>5	>1	>1/2	>1/4	>5040	>0
	- nR	>6500	.0	.0	.0	.0	.0	.0	.0	.0
- 3	· OR	>5000	.0	.0	.0	:0	:0	.0	.0	.0
	- DR	>3500	2.2	7.7	11.0	12.1	12.1	12.1	12.1	12.1
1	· nR	>2000	6.6	13.2	17.6	18.7	18.7	18.7	19.8	19.8
. 7	· nR	>1000	18.7	40.7	50.5	52.7	52.7	52.7	54.9	54.9
	- OR	>600	23.1	49.5	60.4	62.6	62.6	62.6	64.8	64.8
	- 08	>300	25.3	51.6	62.6	64.8	64.8	64.8	67.0	67.0
	- 08	>150	25.3	52.7	64.8	67.0	67.0	67.0	69.2	69.2
	- OR	> 0	25.3	53.8	67.0	69.2	69.2	69.2	72.5	72.5
		TOTAL	23	49	61	63	63	63	66	66
	TOT	AL NUMB	ER OF OB	51 9	1	- 1	CT FREQ	NH <5/81	27.5	

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCO	TOTAL
2.1	3,2	8,4	11.6	3.2	9.5	6,3	8.4	44.2	3.2	95

J		

									JULY								
PERIOD:	(PRIMARY) (OVER-ALL)	1899-1977 1854-1977						TA	BLE 8				ARE	A 0025	MAGELLAN	STRAIT	WEST
			P	ERCENT	PREC	OF WIN	D DIRE	CTION TH VAR	VS DC	URRENC VALUES	E OR M	IBILI	URRENC	E OF			
	VSBY		N	NE	E	SF	s	SW	W	NW	VAR	CALM	PCT	TOTAL DBS		4	
	<1/2	PCP NO PCP TOT %	.0	.0	.0	.0	.0	.0	.0	1.1 .0 1.1	.0	.5	1.1 .5 1.6				
	1/2	PCP 1 ND PCP TOT \$.0	.0	.0	.0	.0	.0	.0	1.1 .0 1.1	.0	.0	1.1 .0 1.1				
	1<2	PCP NO PCP TOT %	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1				
	2<5	PCP NO PCP TOT %	.0	.8 .3 1.1	.8	.0	.8	.0	1.1 1.6	4.9 .5 5.4	.0	.0					
	5<10	PCP NO PCP TOT %	2.2 7.6 9.8	1.1 1.6	1.1 .3 1.4	.0	2.6 3.4	3.8 4.6 8.4	5.0 4.2 9.2	7.7 8.2 15.9	.0	1.1 1.1	21.2 30.4 51.6				
	10+	PCP NO PCP TOT %	6.9	2.0	3.1 3.1	2.0	2.4	3.0 3.0	5.7 5.7	1.8 3.5 5.3	.0	2.2	2.7 31.0 33.7				
		TOT OBS	18.3	4.9	5,3	2.9	6.7	11.7	16,6	29.9	.0	3.8	100.0	184			

									ISIBIL A SA MI		ED		
VSBY (NM)	SPO KTS	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	1.0	.0		1.0	
	TOT &	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.5	1.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	•0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	1.0	.0		1.0	
	TOT *	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	1.0	.0		1.0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0		
	0-3	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0		
2<5	4-10	.0	.0	.2	.2	.0	.0	.0	1.0	.0		1.5	
	11-21	.0	.2	.7	.2	1.0	.2	.0	1.0	.0		3.4	
	22+	1.0	• 7	.0	.2	.2	.0	1.7	3.4	.0		7.4	
	TOT %	1.0	1.0	1.0	.7	1.2	.2	1.7	5.9	.0	.0	12.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
5<10		.2	.7	.7	.2	2.2	2.2	1.0	.5	.0		7.9	
	11-21	4.6	.3	.5	.5	.4	3.7	4.2	7.4	.0		21.7	
	22+	4.1	.2	.0	.0	1.0	1.7	3.2	6.5	.0		16.7	
	TOT \$	8.9	1.5	1.2	.7	3.6	7.6	8.4	14.4	.0	1.0	47.3	
	0-3	.0	.0	.5	.0	.4	.6	.0	.0	.0	2.0	3.4	
10+	4-10	2.1	1.5	1.2	1.0	1.5	.5	1.0	1.6	.0		10.3	
	11-21	3.0	.4	.7	1.2	1.2	1.7	5.2	.9	.0		14.3	
	22+	2.2	• 1	.4	.1	.5	.7	1.7	2.6	.0		8.4	
	TOT #	7.3	2.0	2.8	2.3	3.6	3.6	7.9	5.0	.0	2.0	36.5	
	דחד שת												203
	TOT PET	17.1	4.4	5.0	3.8	8.4	11.5	18.0	28.3	.0	3.4	100.0	

J			

PERIOD: (PRIMARY) 1899-1977 (DVER-ALL) 1854-1977

TABLE 10

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.8W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <2/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
60300	4.0	4.0	.0	12.0	44.0	8.0	8.0	.0	.0	.0	80.0	20.0	25
90300	.0	.0	4.8	9.5	38.1	4.8	9.5	.0	.0	.0	66.7	33.3	21
12615	.0	.0	.0	4.5	18.2	13.6	22.7	.0	.0	.0	59.1	40.9	22
18621	8.0	4.0	4.0	12.0	36.0	4.0	8.0	.0	.0	.0	76.0	24.0	25
TOT	3.2	2.2	2.2	9.7	32	7.5	11.8	0	0	0	71 0	27	93

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(NM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	NH >4/8	VSBY (NM)	AND/DR
(GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	2.3	.0	.0	30.2	32.0	34.9	43	00603	4.0	8.0	48.0	36.0	16.0	25
06609	1.6	1.6	1.6	9.5	60.3	25.4	63	90360	.0	9.5	28.6	38.1	33.3	21
12615	•0	2.2	2.2	8.7	43,5	43.5	46	12615	.0	.0	19.0	47.6	33.3	21
18421	1.9	.0	.0	5.6	48,1	44.4	54	18621	8,3	20.8	41.7	41.7	16.7	24
TUT PCT	1.5	1.0	1.0	26 12.6	98 47.6	75 36.4	206 100.0	TOT	3,3	9.9	32 35.2	40.7	22 24.2	100.0

TABLE 13

	TABLE 13 PERCENT FREQUENCY UF RELATIVE HUMIDITY BY TEMP														TABL	E 14				
	PERC	ENT FR	REQUENC	Y UF R	ELATIV	E HUMI	DITY B	Y TEMP	TOTAL	PCT		PERC	ENT FRE	EQUENC	Y DF 1	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	s	SW	×	NW	VAR	CALM
45/49	.0	.0			.7	4.0	2.0	4.6	18	11.9	1.2	.0	.7	.0	.7	.0	1.3	6.8	.0	1.3
40/44	.0	.0			2.6	7.3	17.2	13.2	61	40.4	6.5	2.6	.7	.0	.7	1.3	9.1	17.5	.0	2.0
35/39	.0				4.6	9,3	7.9	15.9	58	38.4	7.0	2.8	3.0	.0	3.3	4.6	10.8	5.6	.0	1.3
30/34	.0		• 0	.0	.0	2.0	1,3	3,3	10	6.6	.0	1.3	.7	.0	. 8	3.1	.7	.0	.0	.0
25/29	.0	.0	• 0	.0	.0	.7	.0	2.0	4	2.6	.0	.0	.0	.0	1.0	1.2	. 5	.0	.0	
TOTAL	0	0	0	2	12	35	43	59	151	100.0		-								
PCT	.0	.0	.0	1.3	7.9	23.2	28.5	39.1			14.6	6.8	5.0	.0	6.5	10.3	22.4	30.0	.0	4.4

TAPLE 15

MEANS, EXTREMES AND PERCENTILES DF TEMP (DEG F) BY HOUR
HOUR (GHT)
00603 49 48 46 40 32 29 27 39.6 282
00603 49 48 46 40 32 30 27 39.5 559
12615 50 48 46 40 31 30 28 39.5 274
18621 52 48 46 39 31 27 20 38.9 882
TOT 52 48 46 39 32 28 20 39.3 1997

TABLE 16

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00603	.0	3.3	3.3	13.3	26.7	53.3	87	30
06609	.0	.0	10.4	22.9	33.3	33.3	83	48
12615	.0	.0	9.4	28.1	25.0	37.5	83	32
18621	.0	2.3	9.3	25.6	27.9	34.9	83	43
TOT	0	2	13	35	44	59	84	153

PAGE 040

1 3

PERIOD: (PRIMARY) 1899-1977 (OVER-ALL) 1854-1977

TABLE 17

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.88

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25	29	33	37	41	45	49	TOT	FOG	FOG	
THP DIF	28	32	36	40	••	•0	52		-00	F00	
5	.0	.0	.0	.0	.0	.0	.6	1	.0	2:9	
4	.0	.0	.0	.0	.0	2.9	.0	5	.0	2.9	
3	.0	.0	.0	.0	. 6	2.3	.0	5	.0	2.9	
2	.0	.0	.0	1.1	1.7	2.9	.0	10	.0	2.9	
1	.0	.0	.0	.0	3.4	2.3	.0	10	.0	5.7	
0	.0	.0	.0	.0	8.0	1.7	.0	17	.6	9.2	
0 -1 -2 -3	.0	.0	.6	5.2	4.0	1.1	.6	20	2.3	9.2	
-2	.0	.0	.0	4.6	7.5	. 6	.0	22	1.1	8.0	
-3	.0	.0	2.9	3.4	2.9	.0	.0	16	1.1	8.0	
-4	.0	.0	.6	5.7	1.7	.0	.0	14	.0	8.0	
-4	.0	.0	2.3	1.1	1.7	.6	.0	10	.0	5.7	
-6	.0	.6	2.9	2.9	.0	.0	.0	11	. 6	5.7	
-7/-8	.0	.6	5.2	1.7	3.4	.0	.0	19	. 6	10.3	
-9/-10	.6	.0	1.7	.6	.6	.0	.0	6	.6	2.9	
-11/-13	.0	1.1	.0	.6	.0	.0	.0	3 5	.6	1.7	
-14/-16	1.7	.6	.6	.0	62	.0	.0	5	12	2.9	
TOTAL	4		29		62		2		12	162	
		2.9		47		25		174			
PCT	2.3	2.9	16.7	27.0	35.6	14.4	1.1	100.0	6.9	93.1	

PERIOD: (DVER-ALL) 1963-1977

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.8	.0	.0	.0	3.8		.0	.0	.6	.0	.0	.0	.6
3-4	.0	.0	1.9	.0	.0	.0	1.9		.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.9	5.1	.0	.0	.0	7.1		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	1.9	.0	1.9		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.9	.0	.0	1.9		.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.00	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	ō		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	0	.0	.0	.0	0		.0	.0	.0	.0	.0	.0	1.3
TOT PCT	.0	1.9	10.9	1.9	1.9	.0	16.7		.0	.0	.6	.6	,0	.0	1.3
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	SE 22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	-0
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	-0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0
5-6	.0	2.6	.0	.0	.0	.0	2.6		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	- 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0		.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	- 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	. 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	- 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	. 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.00	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	.0	.0	.0	.0	2.6		.0	.0	.0	.0	.0	.0	.0

JULY	
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PERIOD: (OVER-ALL) 1963-1977

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.8W

					TABLE	18	(CONT)				AKEA
PCT	FREO	0=	WIND	SPEED	(KTS)	AND	DIRECTION	VERSUS	SFA	HETGHTS	(FT)

				PC	T FREQ U	F WIND	SPEED	(KTS) AND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT			
HGT	1-3	4-10	11-21	5 22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	. 0	.0	2.6	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
3-4	.0	.0		.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	3.2	
5-6	.0	.0	5.8	.0	.0	.0	5.8	.0	.0	1.9	.0	.0	.0	1.9	
7	.0	.0	.0	.0	.0	.0	. 0	.0	.0	2.6	.0	.0	.0	2.6	
8-9	.0	.0	.0	.0	.0	.0	. 0	.0	.0	.0	2.6	. 0	.0	2.6	
10-11	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
12	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	2.6	2.6	.0	5,1	.0	.0	.0	.0	. 0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	. 0	.0	.0	.0	.0	.0	.0	0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	. 0	.0	.0	.0	.0	.0	.0	- 0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+ TOT PCT	.0	.0	5. A	2.6	2.6	.0	10.9	2.6	.0	7.7	2.6	.0	.0	12.8	
	• •	•					•••	-	•						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	2.6	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	3.2	
3-4	.0	0.	4.5	.0	.0	.0	4,5	.0	.0	3.2	.0	. 0	.0	3.2	
5-6	.0	.0	.0	2.6	.0	.0	2.6	.0	3.2	2.6	7.7	.0	.0	13.5	
7	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.6	5.1	3.2	.0	9.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	2.6	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	. 0	.0	2.6	
12	.0	.0	. 2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	. 0	0	5.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	.0	41.7	
TOT PCT	.0	.0	6.4	2.6	.0	.0	9.0	.0	5.8	12.2	17.9	5.8	.0	41.7	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	707 085
<1	10.0	2,5	.0	.0	.0	.0	12.5	082
1-2	.0	.0	7.5	.0	.0	.0	7.5	
3-4	.0	.0	12.5	.0	.0	.0	12.5	
5-6	.0	7,5	15.0	10.0	.0	.0	32,5	
7	.0	.0	5.0	5.0	5.0	.0	15.0	
8-9	.0	.0	.0	5.0	2.5	.0	7.5	
10-11	.0	.0	2.5	.0	.0	.0	2.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	7.5	2.5	.0	10.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								40
TOT PCT	10.0	10.0	42.5	27.5	10.0	.0	100.0	

PERIOD: (DVER-ALL) 1952-1977

TABLE 19

PERCENT FREQUENCY OF MAVE HEIGHT (FT) VS MAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	4.0	6.7	6.7	6.7	4.0	1.3	1.3	.0	1.3	1.3	.0	.0	0	.0	.0	.0	.0	.0	.0	25	5
6-7	.0	.0	2.7	1.3	5.3	2.7	1.3	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
8-9	.0	.0	.0	.0	2.7	1.3	.0	5.3	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	10
10-11	.0	.0	.0	.0	.0	.0		.0	4.0	10.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	15
12-13	.0	.0	.0	.0	.0	1.3	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	11
>13	.0	.0	.0	.0	.0	2.7	.0	.0	1.3	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	5	13
INDET	8.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0
TOTAL	9	6	7	6	9	7		4	12	10	1	0	0	0	0	0	0	0	0	75	
PCT	12.0	8-0	9.3	8.0	12.0	9.3	5.3	4.3	14.0	13.3	1.3	- 0	- 0	ň	- 0	- 0	. 0	. 0	ň	100.0	

AUGUST

PERIOD: (PRIMARY) 1904-1977 (OVEK-ALL) 1870-1977

TABLE 1

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.9W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			F	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	25.7	.0	5.9	.0	2.0		.0	33.7	3.0	.0	7.9	.0	.0	.0	55.4
NE	13.3	.0	26.7	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	60.0
E	14.0	.0	.0	.0	.0	.0	.0	14.0	9.3	.0	.0	.0	.0	.0	76.7
SE	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	.0	42.1	.0	.0	.0	52.6
S	.0	.0	2.8	.0	2.8	.0	.0	5.6	9.9	.0	.0	.0	.0	.0	84.5
SW	5.0	.0	5.0	.0	5.0	.0	.0	15.0	12.5	.0	.0	.0	.0	.0	72.5
W	7.8	.0	.0	.0	.0	.0	.0	7.8	12.2	.0	.0	.0	.0	.0	80.0
NW	10.9	3.6	1.4	.0	1.4	.0	.0	19.6	10.1	.0	2.9	.0	.0	.0	67.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT		1.5	3.0	.0	1.5	•0	•0	17.2	8.2	.0	5.2	•0	.0	.0	69.4

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			p	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00&03 06&09 12&15 18&21	7.3 15.6 .0 18.4	2.4 .0 3.7	3.1 .0 7.9	.0	.0	.0	.0	14.6 18.8 3.7 26.3	12.2 3.1 14.8 2.6	.0	4.9 6.3 7.4 2.6	.0	.0	.0	68.3 71.9 74.1 68.4
TOT PCT	10.9	1.4	2.9	.0	1.4	.0	.0	16.7	8.0	.0	5.1	• 0	.0	.0	70.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	NO SPE	ED (KNO	TS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	. 1	2.0	2,5	2,6	1.0	. 3		8.6	21.2	8,8	20.0	10.2	6,5	7.4	.0	9.1	8.3
NE	. 1	1.7	2.6	1.0	. 3			5.8	16.3	5.2	10.0	5.4	6.0	4.9	.0	5.7	8.0
E	.3	1.9	1.5	. 8	. 2	. 1		4.8	14.6	5.0	25.0	5.5	4.4	3.8	.0	4.9	3.9
SE	. 1	1.2	1.3	.7	.3	. 2		3.8	18.1	4.9	5.0	3.8	2.8	2.9	10.0	3.7	4.4
S	. 3	1.9	2.5	2.4	1.4	. 4		8.7	21.9	6.7	20.0	8.0	9.9	10.6	50.0	9.1	6.5
SW	.5	3.4	5.7	5,5	3.0	2.0		20.2	24.3	20.0	10.0	16.7	22.3	21.3	20.0	20.0	22.4
W	.6	4.5	7.2		4.2	2.4		26.0	24.5	26.0	10.0	24.6	25.6	26.4	20.0	27.1	
NW	. 2	3.0	6.2		3.4	1.7		20.8	24.8	22,3	. 0	24.1	22.4	21.3	.0	18.6	20.4
VAR	.0	.0	.0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4				•	•		1.4	.0	1.2	.0	1.7	.0	1.5	.0	1.9	.7
TOT OBS	91	478	720	644	334	175	2442		22.5	338	10	346	311	328	5	823	281
TOT PCT	3.7	19.6			13.7	7.2		100.0						100.0	100.0		

TABLE 3A

		WIND								HOU			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL	PCT	MEAN	00	06	12	18	
						DBS	FREQ	SPD	03	09	15	21	
N	.9	2.6	2.5	1.8	.7		8.6	21.2	9.1	8.4	7.3	8.9	
NE	.7	2.5	1.7	. 8	.1		5.8	16.3	5.3	5.7	4.8	6.3	
E	1.2	1.7	1.2	.5	.1		4.8	14.6	5.5	5.0	3.8	4.7	
SF	.5	1.4	1.2	.5	.1		3.8	18.1	4.9	3.3	3.0	3.9	
SE S	1.0	2.6	2.0	2.2	. 9		8.7	21.9	7.0	8.9	11.2	8.4	
SW	2.3	4.3	6.0	4.5	3.1		20.2	24.3	19.7	19.3	21.2	20.6	
W	2.3	6.1	7.3	6.3	4.0		26.0	24.5	25.6	25.1	26.3	26.6	
NW	1.5	4.4	6.5	5.4	3.0		20.8	24.8	21.7	23.3	20.9		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0		
CALM	1.4						1.4	.0	1.1	.9	1.5	1.6	
TOT OBS	289	626	691	537	299	2442		22.5	348	657	333	1104	
-07 007	11 0	25 4	20 3	22 0	12 2		100 0			100 0			

Δ	 c	 e	•

PERIOD: (PRIMARY) 1904-1977 (OVER-ALL) 1870-1977

TABLE 4

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.9W

DEDCENTAGE	FREQUENCY D	E WIND	COEEN	 HOUR	

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUK	CALM	1-3	4-10	11-21		34-47	48+	MEAN	FREQ	OBS
60300	1.1	3.7	18.7	33.3	25.0	12.1	6.0	21.5	100.0	348
90300	.9	1.5	21.9	31.7	23.7	12.5	7.8		100.0	657
12615	1.5	2.1	21.0	24.3	28.2	14.7	8.1	23.2	100.0	333
18621	1.6	2.5	18.0	28.5	27.8	14.6	6.9		100.0	1104
TUT	33	58	478	720	644	334	175	22.5		2442
PCT	1.4	2.4	19.6	29.5	26.4	13.7	7.2		100-0	

												1,4	DEE 0					
P	CT FRE		OTAL (DIRFO	TION TION	(EIGHTHS)			PERCEN	TAGE F	REQUEN	ICY OF	CEILIN NH <5/	B BY W	HTS (F	T,NH :	4/8) IN	
WND DIR	0-2	3-4	5-7	8 & 085CD	TOTAL	COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	3.1	.8	4.7	9.8		6.4	.0	.0	2.7	1.2	4.3	4.7	.0	.0	.0	.0	5.5	
NE	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
E	3.1	1.6	.0	4.7		5,1	.0	.0	.0	2.3	2.3	.0	.0	.0	.0	.0	4.7	
SE	.0	. 8	.0	5.5		7.5	.0	.0	. 8	. 8	2.3	.0	1.6	.0	.0	.0	.8	
S	1.6	2.0	3.1	3.9		5.4	.0	.0	. 8	.0	4.7	.0	.0	.0	.0	.0	5.1	
SW	.0	.4	. 8	3,1		7.4	.0	.0	1.6	1.6	. 8	.0	.0	.0	.0	.0	.4	
W	1.6	2.7	10.9	5.5		5.7	. 0	.0	.0	.0	9.0	4.3	.0	.0	.0	.ŏ	7.4	
NW	4.7	4.3	7.0			5.9	.0	.0	2.0	2.0	9.4	2.0	.0	.0	.0	.0	15.2	
VAR	.0	.0	•0	.0		.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	9	8	17	30	64	6.0	0	0	. 5		21	• 7	1	. 0	.0	.0	25	64
TOT PCT	14.1	12.5	26.6	46.9	100.0		.0	.0	7.8	7.8	32.8	10.9	1.6	.0	.0	.0	39.1	100.0

CUMULATIVE PCT FREG	DF	SIMULTANEOUS	DCCURRENCE
OF CELLING HETCHY	INL	SA/RI AND VI	LOV INMI

					VSBY (NM)			
	CEILING	- OR	- OR	. DR	- OR	- OR	- DR	- OR	= OR
	(FEET)	>10	>5	>5	>1	>1/2	>1/4	>50YD	>0
	TR >6500	.0	.0	.0	.0	.0	.0	.0	.0
	DR >5000	.0	.0	.0	.0	.0	.0	.0	.0
	TR >3500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	OR >2000	7.7	12.3	12.3	12.3	12.3	12.3	12.3	12.3
	DR >1000	20.0	43.1	44.6	44.6	44.6	44.6	44.6	44.6
•	DR >600	23.1	49.2	52.3	52.3	52.3	52.3	52.3	52.3
	OR >300	26.2	55.4	60.0	60.0	60.0	60.0	60.0	60.0
	OR >150	26.2	55.4	60.0	60.0	60.0	60.0	60.0	60.0
	OR > 0	26.2	55.4	60.0	60.0	60.0	60.0	60.0	60.0
	TOTAL	17	36	39	39	39	39	39	39

TOTAL NUMBER OF OBSI 65 PCT FREQ NH <5/81 40.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	OBS
3,9	3,9	11.7	6,5	10.4	6.5	10.4	11.7	35.1	.0	77

11	•	ı	ø	•	

ER IOD:	(PRIMARY)	1904-1977 1870-1977						TA	8LE 8				ARE	4 0025 MAGELLAN STRAIT	WEST
			P	FRCENT	PREC	F WIN	D DIRE	CTION TH VAR	VS DCC	URRENC	E OR N	IBILI	URRENC	E OF	
	VSBY		N	NE	E	SE	s	SW	w	NW	VAR	CALM	PCT	TOTAL OBS	
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
		TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
		PCP	:0	.0	.0	.0	.4	.4	.4	.4	.0	.0	1.5		
	1/24	1 NO PCP	.7	.0	.0	.0	.0	.0	1.5	.0	.0	.0	2.2		
		TOT \$.7	.0	.0	.0	. 4	.4	1.9	.4	.0	.0	3.7		
		PCP	.7	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.5		
	1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0		
		TOT &	.7	.0	• 0	.0	.0	.0	.0	.7	.0	.0	1.5		
		PCP	2.8	.4	.0	.0	.4	.7	.9	.7	.0	.0	6.0		
	2<5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
		TOT %	2.8	.4	.0	.0	. 4	.7	. 9	.7	.0	.0	6.0		
		PCP	2.8	.7	1.1	.4	.0	.0	.0	3.2	.0	.0	8.2		
	5<10	NO PCP	6.2	.4	2.2	4.1	4.1	1.9	7.5	13.2	.0	.0	39.6		
		TOT \$	9.0	1.1	3,4	4.5	4.1	1.9	7.5	16.4	.0	.0	47.8		
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	10+	NO PCP	5.6	1.3	4.7	2.6	8.4	4.5	6.5	7.5	.0	.0	41.0		
		TOT %	5.6	1.3	4.7	2.6	8.4	4.5	6.5	7.5	.0	.0	41.0		
		TOT OBS												134	
		TOT PCT	18.8	2.8	8.0	7.1	13.2	7.5	16.8	25.7	.0	.0	100.0		

TABLE 9

(MM)	KTS	N	NE	E	SE	S	SW		NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	003
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		. 2	
	TOT \$.0	•0	.0	.0	.0	.0	.0	.0	.0	.0		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.6	.0	.0	.0	.0	.0	.6	.0	.0		1.1	
	11-21	.0	.0	.0	.0	.0	.6	. 6	. 3	.0		1.7	
	22+	.0	.0	.0	.0	. 3	.3	.6	.0	.0		1.1	
	TOT \$.6	•0	•0	.0	.3	. 8	1.9	. 3	.0	.0	3.9	
- 12	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	•0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.3	.0	.0	.0	. 8	.6	.3	.0		2.2	
	22+	.6	•0	.0	.0	.0	.0	.0	1.1	.0	120	1.7	
	TOT %	. 8	.3	•0	•0	.0	. 8	.6	1.4	.0	.0	3.9	
	0-3	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6	
2<5	4-10	.0	•0	• 0	.0	•0	.0	.6	.0	.0		.6	
	11-21		.6	.0	.0	.0	.3	.3	.3	.0		2.2	
	22+	2.1	.0	•0	•0	•0	.0			.0		3.3	
	TOT \$	2.9	•6	•0	•0	.3	.6	1.3	1.1	.0	.0	6.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	.6	.0	1.7	1.1	.0	.0	. 8	1.4	.0		5.6	
	11-21	3.3	.6	13	1.9	1.0	2.1	1.9	6.7	.0		17.8	
	22+	3.9	. 8	.6	. 3	2.1	1.5	4.7	6.7	.0		20.6	
	TOT \$	7.8	1.4	2.5	3.3	3.1	3.6	7.5	14.7	.0	.0	43.9	
	0-3	.0	.0	.3	.3	.6	.6	.0	.0	.0	.0	1.7	
10+	4-10	. 8	1.5	3.2	. 8	3.1	1.1	2.8	2.2	.0		15.6	
	11-21	2.2	2.2	1.4	. 8	2.8	1.8	2.6	3.9	.0		17.8	
	22+	3.2	•1	.0	.3	.7	.1	1.0	1.3	.0	-	6.7	
	TOT \$	6.3	3.9	4.9	2.2	7.1	3.6	6.4	7.4	.0	.0	41.7	
	NT DAS	18.3	6.1	7.4	5.6	10.7	9.4	17.6	24.9	.0		100.0	180

AUGUST

PERIOD: (PRIMARY) 1904-1977 (OVER-ALL) 1870-1977

TABLE 10

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.9W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HDUR (GMT)	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	.0	.0	11.8	11.8	11.8	.0	.0	.0	.0	.0	35.3	64.7	17
90300	.0	.0	.0	5.9	23.5	11.8	5.9	.0	.0	.0	47.1	52.9	17
12615	.0	.0	18.8	.0	31.3	25.0	.0	.0	.0	.0	75.0	25.0	16
18621	.0	.0	•0	11.8	58.8	5.9	.0	.0	.0	.0	76.5	23.5	17
TOT	0	0	7.5	7.5	21	10.4	1.5	0	0	0	39	28	100.0

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(MM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8	TOTAL
00603	.0	5.9	5.9	5.9	43.1	39.2	51	00803	.0	13.3	26.7	13,3	60.0	15
06609	.0	2.0	2.0	6.1	42.9	46.9	49	06809	.0	.0	5.9	41.2	52.9	17
12615	.0	5.7	2.9	5.7	40.0	45.7	35	12815	.0	18.8	18.8	56,3	25.0	16
18621	.0	2.0	4.1	8.2	44.9	40.8	49	18821	.0	.0	17.6	58.8	23.5	17
TOT	.0	3.8	3.8	6.5	42.9	42.9	184	TOT	.0	7.7	11	43.1	40.0	100.0

TABLE 12

				,	ABLE 1	3									TABL	E 14				
	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	017Y 8	Y TEMP	TOTAL	PCT		PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	.0	:0	4:9	1.6	4:9	14	11.5	7:0	:0	:0	.0	2.3	•2	.0	2.0	.0	•0
40/44	.0	.0	.8	1.6	6.6			13.1	61		6.8	.8	4.1	1.6	1.6	1.0	9.6	23.6	.0	.8
30/34 TOTAL	.0	.0	.0			32			1	100.0	.4	.0	.0	.0	.0	.0	.0	.4	.0	0
PCT	.0	.0	.8	1.6		26.2	32.0		•-•		19.9	1.0	6.8	2.9	4.5	9.4	19.3	33.8	.0	2.5

TARLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY MOUR

UR MAX 99% 95% 70% 5% 1% MIN MEAN TOTAL

TABLE 16

HOUR 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL 085 00603 .0 6.1 12.1 27.3 30.3 24.2 80 33 00609 .0 .0 9.1 24.2 36.4 30.3 83 33 126.15 .0 3.8 15.4 36.5 23.1 19.2 78 26 18221 .0 3 15.6 21.9 34.4 28.1 82 32 70T 0 3 16 34 39 32 81 124

AUGUST

PERIOD: (PRIMARY) 1904-1977 (DVER-ALL) 1870-1977

TABLE 17

AREA 0025 MAGELLAN STRAIT WEST 54.15 73.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

		40000	4		-				
AIR-SEA	29	33	37	41	45	49	TOT	w	WO
THP DIF	32	36	40	44	48	52	-	FOG	FOG
7/8	.0	.0	.0	.0	.0	.8	1	.0	. 8
6	.0	.0	.0	. 8	.0	.0	ī	.0	. 8
4	.0	.0	. 8	.0	1.6	.0	3	.0	2.3
3	.0	.0	.0	. 8	2.3	.0	4	.0	3.1
2	.0	.0	. 8	5.5	4.7	.0	14	.0	10.9
1	.0	.0	.0	8.6	1.6	.0	13	1.6	8.6
ō	.0	.0	1.6		. 8	.0	18	.8	13.3
-1	.0	.0	1.6	7.0	. 8	.0	12	.0	9.4
-2	.0	1.6	3.9	9.4	.0	.0	19	.0	14.8
-2	.0	.0	3.1		.0	.0	7	.0	5.5
-4	.0	1.6		1.6	.0	.0	10	.0	7.8
-5	.0	2.3	2.3	1.6	.0	.0	8	.0	6.3
-6	.0	1.6	4.7	.0	.0	.0	8	.0	6.3
-7/-8	. 8	3.1	1.6	.0	.0	.0	7	. 8	4.7
-9/-10	2.3	.0	.0	.0	.0	.0	7 3	2.3	.0
TOTAL	4	•••	32		15	••		7	121
	-	13		63		1	128		
PST	3.1		25.0		11.7	. 8	100.0	5.5	94.5
PST	3.1	10.2	25.0	49.2	11.7	. 8	100.0	5.5	94

PERIOD: (DVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 23-25 26-32 23-32 24-48 49-60 61-70 71-86 1-3 4-10 11-21 5.8 1-3 7000000000000000000000 48+ HGT <1
1-2
3-4
5-6
7
8-9
10-11
12
13-16
17-19
20-32
23-25
26-32
33-30
41-48
49-60
61-70
71-86
T PCT 34-47 1-3 4-10 4-47 1-3 4-10 484

PERIOD: (OVER-ALL)	1942 10-7		AUGUST			LAN CYBAIT	HECT
PERIOD: (UVER-ALL)	1403-1411	TABL	E 18 (CONT)	AKEA	54.15	73.9W	MEST
		PCT FRED DE WIND SPEED INTE	AND DIRECTION VERSI	S SEA HETGHTS (FT)			

				PC	I PREG I	DE MIND	SPEED	(KTS) A	ND DIREC	TIUN	ERSUS S	EA HEIG	HIS (FI)			
HGT	1-3	4-10	11-21	\$ 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	7.7	.0	.0	.0	.0	7.7		.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	. 0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0	
3-4	.0	.0		.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
8-9	.0	.0	.0	.0	.0	.0	. 0		.0	.0	.0	.0	. 0	.0	.0	
10-11	.0	.0	. 0	.0	.0	.0	. 0		.0	.0	.0	.0	. 0	.0	.0	
12	.0	.0	.0	.0	.0	.0	0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.2	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0	
TOT PCT	.0	7.7	.0	.0	.0	.0	7.7		.0	.0	.0	.0	,0	.0	.0	
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-2	.0	5.8	.0	.0	.0		5.8		.0	1.9	.0		. 0			
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	7.7	.0		.0	7.7	
	.0	.0	.0	.0		.0	.0				.0	.0	.0	.0	.0	
8-9	.0	.0		5.8	.0	.0	5.8			.0	.0	1.9		.0	1.9	
	.0	.0		.0	.0	.0	.0				.0	1.9	.0	.0	1.9	
12		.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	-0		.0	
	.0	.0	7.7	5.8			26.9			.0	.0		3.8		5.8	
		.0	.0	.0	.0	.0	.0				.0	.0	.0		.0	
20-22		.0	.0	.0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	7.7	.0	7.7				.0	.0	7.7		7.7	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	• 0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	. 0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	5.8	7.7	11.5	21.2	.0	46.2		•0	1.9	7.7	5.8	11.5	.0	26.9	100.0
11-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86		5.8	7.0000000000000000000000000000000000000	.0 .0 .0 5.8 .0 .0 .0 .0 .0	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00000000000000000000000000000000000000	26.9		000000000000000000000000000000000000000	.00.00.00.00.00.00.00.00.00.00.00.00.00	.0 .0 .0 .0 .0 .0 .0 .0	22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	34-47 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00000000000000000000000000000000000000	1.9 0.0 1.9 1.9 1.9 1.9 0.0 0.0 0.0 0.0	PCT

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	7.7	.0	.0	.0	.0	7.7	003
1-2	.0	7.7	.0	.0	.0	.0	7.7	
3-4	.0	.0	7.7	.0	.0	.0	7.7	
5-6	.0	.0	7.7	.0	.0	.0	7.7	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	7.7	.0	.0	7.7	
10-11	.0	.0	.0	7.7	.0	.0	7.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	7.7			.0	38.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	15.4	.0	15.4	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								13
	-					142		-

PERIO	ועסו נסעו	ER-ALL) 195	0-197	,				TABLE	19											
					PERCENT	FRE	QUENCY	DF WA	AE HET	SHT EF	T) VS	WAVE P	ERIDD	(SECON	(\$0						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.7	8.3	16.7	5.0	8.3	3.3	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	4
6-7	.0	.0	3.3	1.7	1.7	1.7	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
8-9	.0	.0	.0	.0	.0	5.0	1.7	.0	6.7	.0	.0	1.7	1.7	.0	.0	.0	.0	.0	.0	10	14
10-11	.0	.0	.0	.0	.0	3.3	.0	.0	5.0	.0	3.3	6.7	.0	.0	.0	.0	.0	.0	.0	11	18
10-11	.0	.0	.0	.0	.0	1.7	.0	.0		.0	.0	.0			.0	.0	.0	.0	.0	1	- 8
>13	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.3	.0	3.3	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0	.0	.0	.0	.0		2
TOTAL	3	5	14		6	9	3	1	7	0	2	5	1	0	0	0	0	0	0	60	8
PCT	5.0	8.3	23,3	6.7	10.0	15.0	5.0	1.7	11.7	.0	3.3	8.3	1.7	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1901-1977 (OVER-ALL) 1855-1977

TABLE 1

AREA 0025 MAGELLAN STRAIT WEST 53.85 74.2W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

					Cueria	Kees	C.116					201.0				
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA		
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE			
N	6.5	3.7	.0	.0	.0	.0	.0	10.3	12.1	.0	11.2	.0	.0	.0	66.4	
NE	.0	.0	8.9	.0	.0	.0	.0	8.9	.0	.0	.0	.0	.0	.0	91.1	
E	9.1	.0	18.2	.0	.0	.0	.0	27.3	.0	.0	18.2	.0	.0	.0	54.5	
SE	5.1	.0	.0	.0	.0	.0	.0	5.1	.0	.0	10.3	.0	.0	.0	84.6	
S	.0	.0	.0	.0	12.9	.0	.0	12.9	.0	.0	.0	.0	.0	.0	87.1	
SW	7.4	.0	.0	.0	29.6	.0	.0	37.0	.0	.0	.0	.0	.0	.0	63.0	
W	17.1	.0	.0	.0	6.3	.0	3.6	27.0	2.7	.0	9.0	.0	.0	.0	61.3	
NW	10.7	B.0	2.7	.0	.7	.0	.0	22.0	10.7	.0	1.3	.0	.0	.0	66.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0	
TOT PCT	8.9	3.0	2.2	•0	3.7	•0	.7	18.5	5.9	.0	5.9	•0	.0	.0	69.6	

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TAND	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	11.4 5.0 15.4 2.4	5.7 5.0 .0 2.4	8.6 5.0 2.6	.0	2.9 2.5 2.6 4.8	.0	.0	28.6 17.5 20.5 11.9	8.6 7.5 2.6 2.4	.0	2.9 10.0 5.1 2.4	.0	.0	.0	60.0 65.0 71.8 83.3
TOT PCT	8.3	3.2	3.8	.0	3.2	•0	.6	19.2	5.1	.0	5.1	•0	.0	.0	70.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			ED (KN) 22-33		48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21	
N NE	.5	1.6	2.8	1.6	1.1	:1		7.8	20.4	7.9	.0		6.8	9.5	20.0	7.7	5.0	
E	.2	. 8	.5	. 2	. 2	•		2.0	13.6	2.2	.0	2.8	2.3	. 3	5.0	2.3		
SE	.3	1.9	.5	.3	• 1			3.1	10.6	3.1	.0	3.1	2.3	5.0	5.0	2.5		
S	. 2	1.5	1.6	1.1	.7	. 1		5.3	18.8	5,9	.0	5.6	3.8	5.0	.0	5,8	4.9	
SW	.7	2.6	6.1	5.6	3.7	1.3		20.0	24.1	20.6	.0		20.5	19.7	20.0	21.1	18.2	
W	.3	3.9	8.9	10.3	6.3	1.5		31.2	24.9	29.5	25.0	28.1	34.6	29.6	17.5	31.3	35.6	
NW	.3	2.9	6.2	8.4	6.0	1.8		25.5	26.8	25.2	75.0	27.8	26.8	27.8	15.0	24.0	23.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	. 8							. 8	.0	1.0	.0	2.4	. 4	. 4	.0	.5	. 4	
TOT DBS	81	357	604	599	387	111	2139		23.2	289	2	296	275	277	10	757	233	
TOT PCT	3.8	16.7	28.2	28.0	18.1	5.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

....

WND DIR	0-6	WIND 7=16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	HDU1 06 09	12 15	18 21
N	.9	2.5	2,5	1.3	.7		7.8	20.4	7.8	8.2	9.8	7.0
NE	1.1	1.6	1,2	.3	. 1		4.2		4.6	2.7	3.4	5.2
	.6	.9	.2	.2	. 1		2.0	13.6	2.2	2.5	.4	2.1
SE	1.6	.9	.3	.1	.1		3.1	10.6	3.1	2.7	5.0	2.8
5	.9	1.7	1,5	.6	.6		5.3	18.8	5.8	4.7	4.8	5.6
SW	1.5	4.7	6.2	4.9	2.6		20.0	24.1	20.4	19.1	19.7	20.5
W	1.8	6.3	10.2	8.8	4.0		31.2	24.9	29.5	31.3	29.2	32.3
NW	1.2	4.5	7.9	7.5	4.5		25.5	26.8	25.5	27.3	27.4	23.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	. 8		•				. 8	.0	1.0	1.4	.3	.5
TOT DBS	224	494	643	507	271	2139	•	23.2	291	571	287	990
TOT BCT	10.5	23.1	20.1	23.7	12.7		100.0			100.0		100.0

2	FP	T	F	M	B	F	R	

PERIOD:	(PRIMARY)	1901-1977

AREA 0025 MAGELLAN STRAIT WEST 53.85 74.2W

PERCENTAGE	FREQUENCY	DF	WIND	SPEED	BY	HOUR	(GMT)

				WIND	SPEED (KNDTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21		34-47	48+	MEAN	FREQ	DBS
00603	1.0	1.7	22.3	30.2	25.1	15.8	3.8	21.8	100.0	291
90300	1.4	2.3	16.8	28.2	27.8	18.4	5.1	23.2	100.0	571
12615	.3	3.1	18.1	24.4	29.3	19.5	5.2	23.4	100.0	287
18621	.5	3.7	14.5	28.8	28.6	18.2	5.7	23.6	100.0	990
TUT	17	64	357	604	599	387	111	23.2		2139
PCT	. 8	3.0	16.7	28.2	28.0	18.1	5.2		100.0	

	PCT FRE			LOUD A		(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN	B BY	HTS (RECTI	4/8) N	
WND DIE	0-2	3-4	5-7	8 & 085CD	TOTAL	CLOUD	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL
N	4.1	3.0	3.4	9.3		5,3	.0	.0	5.2	.0	2.2	1.1	.0	.0	.0	.0	11.2	
NE	.4	.0	4.5	3.0		6.7	.0	.0	.0	1.5	1.5	1.5	.0	.0	.0	.0	3.4	
E	1.5	.0	.0	1.5		4.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	1.5	
SE	.0	.0	1.5	.0		6.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0		
S	-0	.0	.0	2.2		8.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	
SW	1.5	.4	.0	2.2		5.0	.0	.0	.0	. 7	.0	.0	. 0	.0	.0	.0	3.4	
W	3.0	3.7	7.1	11.6		6.0	.0	.0	1.5	5.2	3.7	.0	. 0	1.5	.0	.0	13.4	
NW	.0	.4	7.5	26.9		7.5	.0	.0	2,2	9.7	14.9	.4	. 0	.0	.0	.0	7.5	
VAR	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	1.5	.0	.0		3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
TOT OBS			16	38	67	6.3	• 0	0	6	14	16		.0	.,	.0	.0	28	67
TOT PC		9.0	23.9	56.7	100.0		.0	.0	9.0	20.0	23.9	3.0	.0	1.5	.0	.0		100.0

CUMULATIVE PCT I	REO	DF	SIMULTANES	SUS	DECURRENCE
OF CELLING HE					

				VSBY (NM)			
CEILING	- OR	- OR	- DR	- OR	- OR	· DR	• DR	- OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ R >6500	.0	.0	.0	.0	.0	.0	.0	.0
■ TR >5000	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
■ OR >3500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
■ DR >2000	1.4	1.4	4.3	4.3	4.3	4.3	4.3	4.3
■ OR >1000	11.6	23.2	29.0	29.0	29.0	29.0	29.0	29.0
■ DR >600	21.7	40.6	47.8	49.3	49.3	49.3	49.3	49.3
■ DR >300	26.1	49.3	56.5	58.0	58.0	58.0	58.0	58.0
■ OR >150	26.1	49.3	56.5	58.0	58.0	58.0	58.0	58.0
■ 7R > 0	26.1	49.3	56.5	58.0	58.0	58.0	58.0	58.0
TOTAL	18	34	39	40	40	40	40	40

TOTAL NUMBER OF OBS1 69 PCT FREQ NH <5/81 42.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCO	TOTAL
4.9	11.1	7.4	8.4	0.0	7.4	0.0	4.0	25.8	. 0	81

c	E	b	•	c	M	R	E	0	

PERIOD:	(PRIMARY) 1 (OVER-ALL) 1	1901-1977 1855-1977						TA	BLE 8				ARE	A 0025 MAGELLAN STRAIT WEST 53.85 74.24
			P	ERCENT	PREC	OF WIN	DOIRE	TH VAR	VS OCC	URRENCE ALUES	E OR N	IBILIT	URRENCE	E OF
	VSBY		N	NE	F	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	<1/2	PCP NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
		TOT \$.0	.0	.7	.0		.0	.0	.0	.0			
	1/2(1	PCP NO PCP TOT \$:7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .7 .7	
		PCP	.0	.0	.4	. 4		.0	.4	1.1	.0	.0	2.2	
	1<2	NO PCP	.6	.0	.0	1.5	.0	.0	.4	1.3	.0	.0	2.2	
	2<5	PCP NO PCP	.0	1.9	.0	2.2	.0	.0	:4	1.9	.0	.0	2.2	
	20	TOT &	.9	1.9	.0	2,2	.0	.0	1.1	2.8	.0	.0	8.9	
	5<10	PCP NO PCP	1.5	.0	.0	2.2	1:1	1.1	7.0	14.1	.0		10.4	
		TOT &	7.4	.7	.0	2,2	1.9	3.0	11.9	15.6	.0	.0	3.7	
	10+	NO PCP	9.6	6.5	1.9		3.9	2.0	7.2	8.1	.0	1.5	39.3	
		TOT PLT	19.8	8.3	3,3	7.2	5.7	5.0	21,3	27.8	.0	1.5	100.0	135

		PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY												
VSBY	SPD	N	NE	E	SE	s	SW	w	NW	VAR	CALM	рСт	TOTAL	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	11-21	.0	.0	.7	.0	.0	.0	.0	.0	.0		.7		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT \$.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
1/2<1	4-10	.7	.0	.0	.0	.0	.0	.0	.0	.0		.7		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	224	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT &	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	4-10	.0	.0	.3	1.7	.0	.0	.0	.0	.0		2.0		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	22+	. 9	.0	.0	.0	.0	.0	1.0	2.2	.0		4.1		
	TOT \$.9	.0	.3	1.7	.0	.0	1.0	2.2	.0	.0	6.1		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
2<5	4-10	. 3	1.0	.0	2.0	.0	.0	.0	.0	.0		3.4		
	11-21	.0	• 7	.0	.0	.0	.0	1.0	1.0	.0		2.7		
	224	1.0	.2	.0	.0	.0	.0	.0	1.5	.0	12	2.7		
	TOT \$	1.4	1.9	•0	2.0	.0	.0	1.0	2.6	.0	.0	8.8		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
5<10	4-10	1.4	.0	.3	2.0	.3	.7	.3	1.0	.0		6.1		
	11-21	1.5	.0	.0	.0	.0	1.0	4.9	4.1	.0		11.6		
	22+	3.9	.0	.0	.0	1.4	1.7	5.6	10.5	.0		23.1		
	TOT \$	6.8	•0	.3	2.0	1.7	3.4	10.9	15.6	.0	.0	40.8		
	0-3	.7	.7	.7	.7	.7	.7	.0	.0	.0	1.4			
10+	4-10	1.7	3.4	1.0	.2	1.9	.7	2.7	.7	.0		12.2		
	11-21	4.6	1.9	.0	.0	.5	.9	3.6	4.3	.0		15.6		
	22+	2.4	.0	.0	.0	.5	.3	2.9	3.4	.0		9.5		
	TOT #	9.4	6.0	1.7	.9	3.6	2.6	9.2	8.3	.0	1.4	42.9		
	INT DAS												147	
1	nt per	19.0	7.8	3.1	6.6	5.3	6.0	25.1	28.7	.0	1.4	100.0		

S				

PERIOD: (PRIMARY) 1901-1977 (OVER-ALL) 1855-1977

TABLE 10

AREA 0025 MAGELLAN STRAIT WEST 53.85 74.28

VAR CALM

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8, AND DCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150 299	300 599	999	1000	2000	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
00603	.0	.0	4.8	23.8	33.3	4.8	.0	.0	.0	.0	66.7	33,3	21
06609	.0	.0	11.8	17.6	23.5	.0	.0	.0	.0	.0	52.9	47.1	17
12615	.0	.0	11.1	16.7	16.7	.0	.0	.0	.0	.0	44.4	55.6	18
18621	.0	.0	5.3	15.8	21.1	5.3	.0	5.3	.0	.0	52.6	47.4	19
TOT	0	0	8.0	14	18	2.7	0	1.3	0	0	54.7	45.3	75

TABLE 11

TABLE 12

		PERCENT	FREQUE	CY VSBY	(NM)	BY HOUR		CUMULAT	TVE PCT	FREQ IG HGT	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/DR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
60300	.0	.0	5.6	16.7	41.7	36.1	36	60800	.0	5.0	45.0	25.0	30.0	20
06609	•0	2.2	6.7	8.9	48.9	33.3	45	06609	.0	14.3	35.7	28.6	35.7	14
12615	.0	2.4	9.8	2.4	36.6	48.8	41	12615	.0	11.8	29.4	17.6	52.9	17
18621	2.2	.0	6,5	6.5	41.3	43.5	46	18621	.0	5.6	33.3	22.2	44.4	18
TOT	1	1.2	7.1	8.3	71	68	168	TOT	.0	8.7	25	23.2	28	69

7/	A		1	3

					ABLE 1	3									TABL	E 14		
	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY B	Y TEMP		PCT		PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	s	SW		N
45/49	.0	.0	.0	.0	7.2	6.2	4.6	2,1	39	20.1	6.2	3.0	2.6	2.1	.4	•1	2.4	2.1
40/44	.0	.0	.0	.0	9.8	21.6	20.1	7.2	114	58.8	12.1	4.3	.0	2.6	1.2	5.4	15.1	16.6
35/39	.0	.0	.0	. 5	1.5	4.6	5.2	5.7	34	17.5	1.8	. 4	1.2	4.6	1.5	1.3	4.4	1.3
30/34	.0	.0	.0	.0		.0		1.5	7	3.6	.0	.0	1.3	. 3	1.0	. 5	.5	.0
TOTAL	0	0	0	1	36	63		32	194	100.0		•		-		• • •		
PCT	.0	-0	.0	. 5	18.6	32.5		16.5			20.1	7.6	5.0	9.5	4.1	7.3	22.4	20.

TABLE 1

Balance A - 1.

				TA	SLE 15									TABLE	16			
	MEANS,	EXTREME	S AND	PERCE	TILES	OF TEM	P (DE	G F) B	Y HOUR		PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	BY HOUR	1
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTA
00603	47	46	46	41	34	32	30	40.7	288	00803	.0	.0	17.0	38.3	31.9	12.8	78	47
90300	48	46	45	41	34	32	31	40.1	579	90300	.0	.0	15.4	24.6	23.1	36.9	82	65
12615	51	47	45	41	35	30	25	40.3	285	12815	.0	.0	24.4	15.6	33.3	26.7	81	45
18621	50	48	46	41	34	30	25	40.7	937	18821	.0	1.6	14.8	41.0	29.5	13.1	78	61
TOT	51	48	46	41	34	31	25	40.5	2089	TOT	0	1	38	66	63	50	80	218

SEPTEMBER

PERIOD: (PRIMARY) 1901-1977 (OVER-ALL) 1855-1977

TABLE 17

AREA 0025 MAGELLAN STRAIT WEST 53.85 74.2W

PCT FRFQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	29	33	37	41	45	49	TOT	W	WO
THP DIF	32	36	40	44	48	52		FOG	FOG
7/8	.0	.0	.0	.0	.8	.0	1	.0	. 8
6	.0	.0	.0	.0	. 8	.0	1	.0	. 8
5	.0	.0	.0	.0	2.3	.0	3	.0	2.3
4	.0	.0	.0	. 8	2.3	.0	4	.0	3.0
3	.0	.0	.0	.0	1.5	.0	2	.0	1.5
2	.0	.0	.0	. 8	4.5	1.5	9	.0	6.8
1	.0	.0	.0	6.0	2.3	.0	11	. 8	7.5
0	.0	.0	1.5	9.8	2.3	.0	18	2.3	11.3
-1	.0	.0	4.5	6.8	1.5	.0	17	.0	12.8
-1	.0	.0	5.3	9.8	1.5	.0	22	. 8	15.8
-3	.0	.0	4.5	3.0	.0	.0	10	. 8	6.8
-4	.0	.0	5.3	1.5	.0	.0	9	.0	6.8
-5	.0	1.5	1.5	4.5	. 8	.0	11	.0	8.3
-6	.0	2.3	1.5	2.3	.0	.0	8	.0	6.0
-7/-8	. 8	.0	.0	2.3	.0	.0	4	.0	3.0
-9/-10	.0	.0	.0	. 8	.0	.0	1 2	.0	. 8
-11/-13	.0	.0	1.5	.0	.0	.0	2	.0	1.5
TOTAL	1		34		27			6	127
	-	5		64		2	133	100	
PCT	. 8	3.8	25.6	48.1	20.3	1.5	100.0	4.5	95.5

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) N 22-33 .0 .0 .0 1.55 4.5 .0 .0 .0 .0 .0 .0 .0 .0 48.00.00.00.00.00.00.00.00 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 23-25 23-25 24-32 33-40 41-48 49-60 61-70 71-86 87* 1-3 1-3 7000000000000000000000 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 FOT PCT 1-3 4-47 1-3 4-10 11-21 7000000000000000000000 484 4-10

(KTS)	AND	DIRECTION	VERSUS	SEA	٠

AREA 0025 MAGELLAN STRAIT WEST 53.85 74.2W

SEPTEMBER

PERIOD: (OVER-ALL) 1963-1977 TABLE 18 (CONT)

				PC	T FREQ	DE MIND	SPEED	(KTS) AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)			
HGT	1-3	4-10	11-21	\$ 22-33	34-47	48+	PCT	1-3	4-10		22-33				
<1	.0	2.0	11-21	.0	.0	.0	2.0	.0	.0	11-21		34-47	48+	PCT	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	:0	.0	2.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	:0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	• 0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	0	.0	2.0	
10-11	.0	.0	.0	.0	.0	.0	. 0	-0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.0	•0	•0	.0	.0	2.0	2.0	2.0	.0	.0	.0	.0	4.0	
				w							NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48.	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	2.5	
1-2	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	4.0		.0	.0	.0	4.0	.0	2.0	4.5	.0	.0	.0	6.5	
5-6	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	10.0	6.5	۰,0	.0	16.5	
7	.0	.0	7.0	.0	.0	.0	7.0	.0	.0	1.0	1.5	0	.0	2.5	
8-9	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.5	.0	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	2.0	.0	8.0	
12	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	4.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	2.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	2.0	
23-25	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	•0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0		.0	.0	.0	.0	:0	.0	.0	.0	.0	.0	.0	.0	
		.0	.0	• 0			. 0	•0						.0	
TOT PCT	.0	4.0	12.5	.0	.0	.0	16.5	.0	2.0	18.5	18.0	6.0	.0	44.5	98.0

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	46+	PCT	TOT
<1	3.8	1.9	3.8	.0	.0	.0	9.6	
1-2	3.8	9.6	3.8	.0	.0	.0	17.3	
3-4	.0	7.7	5.8		.0	.0	13.5	
5-6	.0	.0	15.4			.0	23.1	
7	.0	.0	7.7	5.8			13.5	
8-9	1.9	.0	5.8	.0	.0	.0	7.7	
10-11	.0	.0	.0	5.8		.0	7.7	
12	.0	.0	.0	3.8	.0	.0	3.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	1.9	.0	1.9	
20-22	.0	.0	.0	.0	1.9	.0	1.9	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0		.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-66	.0	.0	.0		.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								52

TOT PCT 9.6 19.2 42.3 23.1 5.8 .0 100.0 PERIOD: (DVER-ALL) 1950-1977 TABLE 19 PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

49-60 61-70 71-86

.0 .0 .0

.0 .0 .0

.0 .0 .0

.0 .0 .0

.0 .0 .0

.0 .0 .0

.0 .0 .0

.0 .0 .0

.0 .0 .0 PERIOD (SEC) <6 6-7 8-9 10-11 12-13 >13 INDET TOTAL PCT 10 AL 18 9 16 16 16 9 2 6 76 100.0 MEAN HGT 4 8 13 15 15 17 0 87+ .0 .0 .0 .0 .0 .0 3-4 3.9 1.3 .0 .0 1.3 .0 .0 1.3 3.9 .0 .0 9.2 1.3 .0 .0 .0 .0 1.3 9 6.6 .0 .0 3.9 1.3 .0 .0 1.3 2.6 2.6 .0 .0 1.3 2.6 .0 1.3 .0 1.3 2.6 1.3 2.6 .0 .0

AREA 0025 MAGELLAN STRAIT WEST 53.98 74.2W

DERCENT	EDENIENCY	DE	WEATHED	DCCURRENCE	 WIND	DIRECTION	

					P. O.C.II	KE W		F HEATHER	Decourage		140 DIV	Ection			
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	27.0	8.1	8.8	.0	2.7	.0	.0	46.6	6.8	.0	5.4	•0	.0	.0	41.2
NE	.0	14.3	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	85.7
E	33.3	.0	.0	.0	.0	.0	.0	33.3	33.3	.0	.0	.0	.0	.0	33.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
5	.0	27.3	.0	.0	.0	.0	.0	27.3	.0	.0	.0	.0	.0	.0	72.7
SW	.0	2.7	.0	.0	5.3	.0	5.3	13.3	13.3	.0	5.3	.0	.0	.0	68.0
W	10.7	13.2	12.8	.0	.0	.0	9.9	46.5	2.5	.0	4.9	. 8	.0	.0	45.3
NW	11.3	23.5	10.4	.0	.0	.0	3.5	48.7	2.6	.0	3.5	.9	.0	.0	44.3
VAR	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	12.6	14.2	8.9	.0	1.1	•0	4.7	41.6	4.7	.0	4.2	.5	•0	.0	48.9

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	12.3 25.0 9.8	7.3 17.5 11.1 16.4	9.8 14.0 2.8 6.6	.0	2.4 .0 .0 3.3	.0	7.3 1.8 2.8 6.6	31.7 45.6 41.7 42.6	7.3 1.8 8.3 3.3	.0	2.4 3.5 2.8 6.6	.0	.0	.0	58.5 49.1 47.2 45.9
TOT PCT	12.3	13.8	8.7	.0	1.5	•0	4.6	41.0	4.6	.0	4.1	.5	•0	.0	49.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			ED (KN) 22-33		48+	TOTAL QBS	PCT FREQ	MEAN SPO	00	03	06	HOUR 09	(GMT)	15	18	21
N	.5	2.0	2.8	2.7	1.1	.6		9,8	21.4	9,3	.0	10.7	7.7	12.3	25.0	9.6	9.1
NE	.4	1.1	.8	. 5	• 1			3.0	13.8	3.0	.0	1.8	3,2	2.8	.0	3.1	3.8
E	.2	.4	.5	.1	. 1	.0		1.2	13.1	1.9	.0	.7	.7	1.5	.0	1.1	2.0
E SE	.3	.9	. 8	. 2	.1			2.4	12.5	2.7	.0	2.5	2.7	1.7	.0	2.4	2.4
S	• 2	. 9	1.8	1.3	. 6	.0		4.8	18.7	5,3	.0	5.4	4.9	5.0	.0	4.6	4.2
SW	.4	3.8	5.8	4.8	2.4	1.1		18.3	21.7	18.3	50.0			17.1	.0	18.9	18.2
W	1.1	3.5	9.2	9.4	5.1	1.8		30.1	24.0	28.7	16.7	28.6	29.2	28.2	37.5	31.2	32.2
NW	. 5	3.0	8.8	7.8	6,3	3.0		29.4	26.8	28.8	33.3	33.4	31.5	30.3	37.5	27.9	26.8
VAR	.0	.0	.0	.0	.0	.0		.0	•0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	•••		•				1.1	.0	1.9	.0	.7	.4	1.1	.0		1.3
TOT OBS	101	341	665	585	343	142	2177	•••	22.9	263	3	280	267	267		865	228
TOT PCT	4.6	15.7	30.5	26.9	15.8	6,5		100.0			100.0	100.0			100.0		

TARLE 34

WND DIR	0-6	WIND 7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00	06 09	R (GMT 12 15) 18 21
N NE	1.4	2.5	2.9	2.0	1.0		9.8	21.4	9.2	9.2	12.5	9.5
	.3	.6	. 3	.1	.0		1.2	13.1	1.9	.7	1.5	1.3
SE	1.0	6	6	.2	•		2.4	12.5	2.6		1.7	2.4
SW	1.7	5.7	1.5	3.7	1.9		18.3	18.7	18.7	18.0	16.9	18.8
w"	2.4	6.2	10.3	7.9	3,3		30.1	24.0	28.6		28.3	31.5
NW	1.4	6.1	8.8	7.6	5.5		29.4	26.8	28.9	32.4	30.4	27.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1		1.9	5	1.1	1.1
TOT OBS	231	533	666	488	259	2177		22.9	266	547	271	1093
TOT PCT	10.6	24.5	30.6	22.4	11.9		100.0		100.0	100.0	100.0	100.0

nc	**	•	

PERIOD:	(PRIMARY)	1898-1977
	(DVER-ALL)	1060 1077

AREA 0025 MAGELLAN STRAIT WEST

PERCENTAGE	FREQUENCY	O.F.	WIND	SPEED	BV	HOUR	(GMT)

				MIND	SPEED (KNOTSI			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
60300	1.9	3.8	17.7	33.8	23.3	12.8	6.8	21.6	100.0	266
90300	.5	3.5	15.4	32.5	26.1	14.6	7.3		100.0	547
12615	1.1	2.6	19.2	30.3	25.8	14.4	6.6	22.3	100.0	271
18621	1.1	3.8	14.5	28.8	28.4	17.4	6.0	23.4	100.0	1093
TOT	23	78	341	665	585	343	142	22.9		2177
PCT	1.1	3.6	15.7	30.5	26.9	15.8	6.5		100.0	-

TABLE A

P	CT FRE			DIREC		EIGHTHS)							CEILIN NH <5/					
WND DIR	0-2	3-4	5-7	8 & 085CD	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH 45/8 ANY HGT	
N	.0	1.3	4.4	14.6		7.3	.9	2.2	.9	2.2	7.0	4.4	1.3	.0	.0	.0	1.3	
NE	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	1.3	2.5		7.3	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	1.3	
SE	.0	.0	.0	1.3		8.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	2.5	1.3	2.5	9.2		6,3	.0	.0	1.3	1.3	1.6	6.0	.0	1.3	.0	.0	4.1	
W	2.2	2.5	10.8	15.2		6.6	.0	.0	.0	3.2	10.8	9.8	.0	.0	.0	.0	7.0	
NW	. 3	1.3	6.3	19.3		7.2	.3	.3	. 3	3.5	14.9	5.1	.0	1.3	.0	.0	1.6	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	1.3	.0	.0		4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
TOT OBS	4	6	20	49	79	6.9	1	2	2	11	27	20	1	2	0	0	13	79
TOT PCT	5.1	7.6	25.3	62.0	100.0		1.3	2.5	2.5	13.9	34.2	25.3	1.3	2.5	.0	.0	16.5	100.0

TABLE 7

				DF SINU				
CEILING	• OR	• OR	• DR	VSBY (NM) • DR	• DR	• OR	
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	
	100	-		100	20			

CETLING	- UK	- UK	- UK	- UK	- UK	- UK	- UK	- UK
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
R >6500	.0	.0	.0	.0	.0	.0	.0	.0
R >5000	.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5
R >3500	1.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7
R >2000	9.9	22.2	28.4	28.4	28.4	28.4	28.4	28.4
R >1000	14.8	50.6	59.3	61.7	61.7	61.7	61.7	63.0
R >600	17.3	58.0	71.6	75.3	75.3	75.3		76.5
R >300	18.5	59.3	74.1	77.8	77.8	77.8		79.0
A >150	18.5	60.5		80.2	80.2	80.2	80.2	81.5
R > 0	18.5	61.7		81.5	81.5	81.5	81.5	82.7
TOTAL	15	50	62	66	66	66	66	67
	(FEFT) R >6500 R >5000 R >3500 R >2000 R >1000 R >600 R >1500 R >150	FEFT >10	R > 6500	R >6500	R > 6500	R >6500 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	R >6500 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	R >6500

TOTAL NUMBER OF OBSI 81

PCT FREQ NH <5/81 17.3

TABLE 74

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	08500	TOTAL
. 0	2.4	4.0	3.7	4.1	4.1		11.0	57.3		

C	n	0	c	

							00	TOBER								
(PRIMARY) 1 (OVER-ALL) 1	898-1977 868-1977						TA	BLE 8				ARE	A 0025	MAGELI	AN STRA	IT WEST
		P	ERCENT	PREC	OF WIN	DIRE	CTION TH VAR	VS DEC	URRENC	E OR N	IBILI1	URRENC	E OF			
VSBY (NM)		N	NE	E	SE	5	SW	w	NW	VAR	ÇALM	PCT	TOTAL DBS			
	PCP	.4	.0	.0	.0	.0	.0	.0	• 1	.0	.0	.5				
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	. 7	.0	.0	.5				
	TOT *	.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.1				
	PCP	1.1	.0	.0	.0	.0	.0	.8	. 8	.0	.0	2.6				
1/241	NO PCP	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1				
	TOT &	2.1	.0	.0	. 0	.0	.0	. 8	. 8	.0	.0	3.7				
	PCP	. 5	.0	.0	.0	.0	.0	1.3	.3	.0	.0	2.1				
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
	TOT %	. 5	.0	.0	.0	.0	.0	1,3	. 3	.0	.0	2.1				
	PCP	1.7	.3	.0	.0	.0	.3	3.0	5.3	.0	.0	10.5				
2<5	NO PCP	. 5	.0	.0	.0	.0	1.2	1.8	1.7	.0	.0	5.3				
	TOT *	2.2	.3	.0	.0	.0	1.4	4,9	7.0	•0	.0	15.8				
	PCP	5.0	.0	.5	.0	.0	. 8	9.7	7.1	.0	.0	23.2				
5<10	NO PCP	4.9	.0	. 5	1.1	.5	3.9	10.1	11.1	.0	.0	32.1				
	TOT %	9.9	.0	1.1	1,1	.5	4.7	19,9	18.2	.0	.0	55,3				
	PCP	.4	.0	.0	.0	. 8	.3	.0	1.2	.0	.0	2.6				
10+	NO PCP	3.9	1.6	, 5	. 5	1.6	3.4	5.1	2.2	.0	.5	19.5				
	TOT %	4.3	1.6	.5	.5	2,4	3.7	5,1	3.4	.0	.5	22.1				
	TOT OBS												190			
	TOT PCT	19.5	1.8	1.6	1.6	2.9	9.9	32.0	30.3	• 0	. 5	100.0				

				PERCEN	T FREQ	DF WI	ND DIF	S OF	VISIBIL	ND SPE	ED			
VSBY (NM)	SPU	N	NE	E	SE	s	SW	W	NW	VAR	CALM	pCT	TOTAL	
	U-3	.0	• 0	•0	.0	.0	.0	.0	.0	.0	.0	.0		
<1/2	4-10	.0	.0	•0	.0	.0	.0	.0	.5	.0		.5		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	22+	. 4	.0	.0	.0	.0	.0	.0	.1	.0		.5		
	TOT \$.4	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.0		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	11-21	.5	.0	.0	.0	.0	.0	.0	.0	.0		.5		
	22+	1.5	.0	.0	.0	.0	.0	.7	.7	.0		2.9		
	TOT \$	5.0	.0	• 0	.0	.0	.0	.7	.7	.0	.0	3.4		
	0-3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5		
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.5	.0		.5		
	11-21	.5	.0	.0	.0	.0	.0	.4	.1	.0		1.0		
	22+	.0	.0	.0	.0	.0	.0	.9	.1	.0		1.0		
	TOT %	.7	• 2	• 0	.0	• 0	.0	1.2	.7	.0	.0	2.9		
	0-3	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.5		
2<5	4-10	.0	.0	.0	.0	.0	.0	.7	.2	.0		1.0		
	11-21	.5	• 0	.0	.0	.0	.5	1.7	2.7	.0		5.4		
	22+	1.6	.2	• 0	.0	.0	.9	1.7	3.4	.0		7.8		
	TOT %	5.1	• 2	• 0	.0	.0	1.3	4.5	6.5	.0	.0	14.7		
	0-3	.9	.0	.0	.5	.0	.0	.0	.1	.0	.0	1.5		
5<10	4-10	1.8	.0	.5	.0	.0	1.5	2.6	2.5	.0		8.8		
	11-21	3.8	.0	.5	.5	.5	2.5	7.4	8.0	.0		23.0		
	22+	3.1	.0	.0	.0	.0	.5	8.6	6.5	.0		18.6		
	TOT %	9.6	•0	1.0	1.0	.5	4.4	18.5	17.0	.0	.0	52.0		
	0-3	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	1.0		
10+	4-10	1.5	.5	.0	.0	.5	.6	1.7	2.6	.0		7.4		
	11-21	.6	.2	.5	.5	• 7	2.2	2.0	2.1	.0		8.8		
	22+	2.0	2.2	.0	.0	2.7	.6	1.8	.7	.0		8.8		
	TOT \$	4.0	2.9	.5	.5	2.7	3.4	6.0	5.4	.0	.5	26.0		
	nT 085							•• 0	•• •				204	
T	DT PET	18.8	3.4	1.5	1.5	3.2	9.2	31.0	31.0	.0	. 5	100.0		

30			

PERIOD: (PRIMARY) 1898-1977 (OVER-ALL) 1868-1977

TABLE 10

AREA 0025 MAGELLAN STRAIT WEST

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

	GMT)	149	150 299	300 599	999	1000	20 ⁰⁰ 34 ⁹⁹	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
C	0603	5.9	.0	11.8	5.9	23.5	17.6	.0	.0	.0	.0	64.7	35.3	17
0	9038	.0	.0	•0	13.6	40.9	27.3	.0	9.1	.0	.0	90.9	9.1	22
1	2615	.0	.0	•0	16.7	38.9	27.8	5.6	.0	.0	.0	88.9	11.1	18
1	8621	.0	8.3	•0	16.7	33.3	25.0	.0	.0	.0	.0	83.3	16.7	24
	TOT	1.2	2.5	2.5	11	28	20	1.2	2.5	0	0	67	17.3	100.0

TABLE 11

TABLE 12

		PERCENT	FREQUE	CY VSBY	(NM)	BY HOUR		CUMULAT	CEILIN	FREQ G HGT	OF RAN	GES OF NH >4/8	VSBY (NM)),BY HOUR	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	2.3	2.3	.0	11.4	59.1	25.0	44	00603	5,9	17.6	29.4	35,3	35.3	17
90360	1.6	3.1	3.1	10.9	53.1	28.1	64	90300	4.5	4.5	22.7	68,2	9.1	22
12615	.0	.0	2,6	17.9	51.3	28.2	39	12815	.0	.0	33.3	55,6	11.1	18
18621	.0	6.5	4.8	19.4	43.5	25.8	62	18621	.0	8.3	41.7	41.7	16.7	24
TOT PCT	1.0	3.3	2.9	31 14.8	107 51.2	26.8	209	TOT	2,5	7.4	26 32·1	50.6	14 17.3	100.0

TEMP F

TABLE 13											TABLE 14									
PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP							TOTAL S	PET	PET		PERCENT FREQUENCY OF WIND DIRECTION					N BY T	BY TEMP			
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	Ε	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	2.8	2.3	.5	.0	12	5.5	1.0	1.3	.0	•0	.0	.5	1.2	1.2	.0	.5
	.0	.0	.5	.5	1.4	6.0	6.5	5,5	44	20.3	6.7	.3	. 9	1.8	.0	1.2	3.8	5.5	.0	.0
	.0	.0	.0	.5	10.1	13.4	22.6	18.9	142	65.4	14.4	1.3	.5	. 5	.3	4.4	19.7	24.4	.0	.0
	.0	.0	.0	.0	.9	1.8	2.8	. 5	13	6.0	.0	.0	.0	.0	.0	.6	3.1	2.3	.0	.0
	.0	.0	.0	.0	1.8	.0	.0	.9	6	2.8	.5	.0	.0	.0	.0	. 9	.9	. 5	.0	.0
	0	0	1	2	37	51	70	56	217	100.0										•••
	.0	•			17 1	22 5	20 2	25 8			92 4	2 0	1 4		2	7 .		22 0	^	

TABLE 15

	MEANS!	FYIKEME	S AND	PEKCEN	TILES	OF TE	A COE	0 F) B	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1*	MIN	MEAN	TOTAL
00803	53	52	48	42	37	31	31	42.2	263
06809	53	48	46	42	36	32	31	41.5	531
12815	52	49	46	42	36	33	32	42.0	259
18621	59	51	48	43	36	33	28	42.3	1058
TOT	59	50	47	42	36	22	20	42 1	2111

	PERC	ENT FRE	GUENCA	OF RELA	TIVE H	YTIDIMU	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00603	.0	4.5	13.6	22.7	34.1	25.0	81	44
90300	.0	1.5	17.6	20.6	30.9	29.4	81	68
12615	.0	.0	11.9	26.2	40.5	21.4	82	42
18821	.0	.0	20.9	23.9	31.3	23.9	81	67
TOT	0	2	27	51	74	54	81	221

DCTDBER

PERIOD: (PRIMARY) 1898-1977 (DVER-ALL) 1868-1977

TABLE 17

AREA 0025 MAGELLAN STRAIT WEST 53.95 74.2W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

IR-SEA	29 32	33 36	37 40	41 44	45	49 52	53 56	TOT	FOG	FOG	
9/10	.0	.0	.0	.0	.0	.0	.6	1	.0	.6	
7/8	.0	.0	.0	:0	.0	1.7	.6	- 4	.0	2.2	
6	.0	. 0	.0	.6	.0	1.1	.0	3	. 0	1.7	
5	.0	.0	.0	1.1	2.2	1.1	.0	8	.0	4.5	
4	.0	.0	.0	.6	.6	1.1	.0	4	.0	2.2	
3	.0	.0	.0	.0	2.2	.6	.0	3 8 4 5	000000	2.8	
3 2	.0	.0	.0	1.7	3.9	.0	.0	10	1.1	2.2 1.7 4.5 2.2 2.8 5.6 8.9	
1	.0	.0	.0	7.3	2.8	.0	.0	10	1.1	8.9	
ō	.0	.0	.0	12.8	4.5	.0	.0	31	.6	16.8	
-1	.0	.0	2.2	10.6	.6	.0	.0	24	.6	16.8	
-2	.0	.0	5.6	6.7	.6	.0	.0	23	.6	12.3	
-3	.0	.0	3.4	5.6	1.1	.0	.0	18	.6	12.3	
-4	.0	.0	4.5	3.9	. 6	.0	.0	16	.0	8.9	
1 0 -1 -2 -3 -4	.0	. 6	1.7	.0	.0	.0	.0	4	. 6	8.9	
-6	.0	1.1	.6	.0	.0	.0	.0	4	.0	2.8 .6 .6	
-7/-8	1.1	1.1	1.7	.0	.0	.0	.0	ī	1.1	2.8	
-9/-10	.0	.6	.0	.0	.0	.0	.0	1	.0	.6	
11/-13	.0	.6	.0	.0	.0	.0	.0	ī	.0	.6	
TOTAL	.0	- 2	35		34		2		8	171	
		5		91		10		179			
PCT	1.1	2.8	19.6		19.0	5,6	1.1	100.0	4.5	95.5	

PERIOD: (QVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) 34-47 34-47 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 22-32-25 26-32 33-40 41-48 49-60 61-70 71-86 87+ TOT PCT 4-10 11-21 1-3 1-3 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 22-32-25 26-32 23-40 41-48 49-60 61-70 71-86 87+ 70 PCT 1-3 4-10 1-3 4-10 34-47

PERIOD: (DVER-ALL)	1963-1977	DCTDBER	AREA 0025 MAGELLAN STRAIT WEST
		TABLE 18 (CONT)	53.95 74.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

				PC	T FREQ	OF WIND	SPEED	(KTS) AND	DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)			
HGT		4-10		S 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
	1-3		11-21	.0			PC1		.0	.0				.0	.0	
∢1 1-2	.0	.0	.0	.0	.0	.0	.0		.0	5.4	.0	.0	:0	.0	5.4	
3-4	.0	:0	.0	.0	.0	.0	.0		.0	.0	.0	2.7	:0	.0	2.7	
5-6		.0		.0	.0	.0	.0		.0	.0	5.4	.0	.0	.0	5.4	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	:0		.0	.0	.0	.0		.0	:0	.0	.0	0	.0	.0	
12	.0	:0	.0	.0	.0	.0	.0		.0	:0	.0	.0	• 0	.0	.0	
13-16	.0	:0	.0	.0	:0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	5.4	5.4	2.7	.0	.0	13.5	
	••		• "	••	••	••	•		••				•			
				w								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	2.0	4.7	.0	.0	.0	.0	6.8		1.4	.7	.0	.0	.0	.0	2.0	
1-2	.0	2.0	2.0	.0	.0	.0	4.1		.0	.7	6.1	.0	. 0	.0	6.8	
3-4	.0	.0	2.0	2.7	.0	.0	4.7		.0	.7	8.8	1.4	.0	.0	10.8	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	2.7	.0	6.1		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.7	
10-11	.0	.0	.0	2.0	2.7	.0	•• '		.0	.0	.0	.7	.0	.0	.7	
12	.0	.0	.0	7.4	.0	.0	7.4		.0	.0	.0	.7	0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	2.7	.0	2.7		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	,0		.0	.0	.0	2.7	.0	.0	2.7	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	- 0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
674	.0	.0	4.1	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	000
TOT PCT	2.0	6.8	4.1	12.2	8.1	.0	33,1		1.4	2.0	14.9	5,4	.0	.0	23.6	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

			14101					
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	10.8	10.8	.0	.0	.0	.0	21.6	063
1-2	.0	8.1	10.8	.0	.0	.0	18.9	
3-4	.0	2.7	18.9	10.8	.0	.0	32.4	
5-6	.0	.0	5.4	.0	.0	.0	5.4	
7	.0	.0	.0	.0	2.7	.0	2.7	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	2.7	2.7	.0	5.4	
12	.0	.0	.0	8.1	.0	.0	8.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	2.7	.0	2.7	
23-25	.0	.0	.0	2.7	.0	.0	2.7	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								37
TOT PCT	10.8	21.6	35.1	24.3	8.1	.0	100.0	

PERIOD: (OVER-ALL) 1951-1977 TABLE 19 PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS) 87+ TOTAL MEAN MGT ... 8 4.0 12 10 ... 13 11 ... 10 ... 13 ... 10 ... 14 2 ... 16 ... 16 ... 16 ... 16 ... 16 ... 16 ... 16 ... 16 ... 16 ... 16 ... 16 ... 17 ... PERIOD (SEC) <6 6-7 8-9 10-11 12-13 >13 INDET TOTAL PCT 1-2 1.5 .0 3.1 .0 .0 9.2 9 3-4 1.5 3.1 .0 1.5 .0 1.5 .7 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 8-9 10-11 1.5 1.5 1.5 1.5 1.5 6.2 1.5 1.5 .0 1.5 .0 .0 .0 .0 4 8 6.2 12.3 .0 4.6 7.7 1.5 .0 .0 1.5 1.5 1.5 1.5 1.5 .0 12.3 .0 11 1.5 3.1 .0 .0 .0 .0 .000000000 .00.000000 .00.0000000 .0 1.5 .0 .0 .0 .0 .0 .0 .0 1.5 .0 1.5 2 .000000000 .0 .0 .0 .0 .0 .0 1.5 3.1 .0 .000.000000

0

NOVEMBER

PERIOD: (PRIMARY) 1902-1977 (OVER-ALL) 1868-1977

TABLE 1

AREA 0025 MAGELLAN STRAIT WEST 54.08 73.9W

DERCENT	EDECHENCY	DE	WEATHER	DECURRENCE	RV	WIND	DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG NO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	25.0	7.1	10.7	.0	.0	.0	.0	32.1	14.3	.0	3.6	.0	.0	.0	50.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47.1	.0	.0	.0	52.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.8	.0	.0	.0	69.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	5.6	.0	22.2	.0	11.1	38.9	.0	.0	5.6	.0	.0	.0	55.6
W	10.1	13.4	2.7	.0		.0	2.7	31.5	4.0	.0	2.7	.0	.0	.0	61.7
NW	17.1	1.8	11.4	.0	.0	.0	1.8	29.4	7.9	.0	9.6	.0	.0	.0	53.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	12.0	4.9	7.0	.0	3.5	•0	2.8	28.2	5.6	.0	8.5	•0	.0	.0	57.7

*ADIE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			p	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00&03 06&09 12&15 18&21	18.8 10.3 9.1 8.9	3.1 2.6 6.1 6.7	9.4 5.1 3.0 8.9	.0	5.1 3.0 4.4		3.1 5.1 3.0	31.3 28.2 24.2 24.4	7.7 12.1 2.2	.0	12.5 7.7 6.1 6.7	.0	.0	.0	56.3 56.4 57.6 66.7
TOT PCT	11.4	4.7	6.7	.0	3.4	•0	2.7	26.8	5.4	.0	8.1	•0	.0	.0	59.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WIN	D SPEE	D IKNE	tate								HOUR	(GMT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	51	
N NE E SE S	.4	1.2	2.2	1.4	1.0	.2		6.4	20.7	4.7	.0	5.3	4.9	5.5	12.5	8.2		
NE	. 3	.7	1.3	. 2	• 1	• 0		2.6	13.7	2,4	.0	2.8	2,6	2.5	.0	2.7	2.8	
E	.7	1.3	. 8		• 1	.0		2.9	9.1	3.8	.0	3.6		3.0	12.5	2.2	3.2	
SE	.5	1.8	1.1	.4	. 1	.0		3.8	10.8	3.7	.0	4.9		3.7	.0	3.8	3.2	
S	. 5	1.7	3.0	2.0	.5	. 3		8.0	18.9	9,9	16.7	6.9	10.1	8.1	6.3	6.7	8.6	
SW	.8	2.7	6.5	5.6	2.1	1.3		19.0	22.4	19.8	16.7	22.6	20.8	19.1	9.4	15.5	22.9	
SW	. 3	3.9	8.8	9.2	4.9	2.3		29.4	25.0	26.9	22.2	24.4	31.1	32.2	59.4	32.2		
NW	. 4	2.9	7.8	9.2	5.3	1,5		27.2	25.4	27.6		28.5	23.8	25.2	.0	28.3	27.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.6	•		• • •	•			. 6	.0	1.3	.0	.9	.7	.7	.0	.4		
TOT OBS	107	382	749	665	335	133	2371	••	22.4	313		324	302	307		828	280	
TOT PCT	4.5	16.1	31.6	28.0	14.1	5,6		100.0			100.0			100.0	100.0		100.0	

7491E 34

WND DIR	0-6	#IND 7=16	SPEED 17-27		41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18 21
N NE	:9	1.6	2.2	1.2	.6		6.4	20.7	4.6	5.1	5.6	8.0
	1.3	1.0	.4	.1	.0		2,9	9.1	3.6	3.1	3.3	2.5
SE	1.3	1.8	. 6	.1	.0		3,8	10.8	3.6	4.3	3.7	3.7
5	1.1	2.6	2,5	1.4	.4		8.0	18.9	10.1	8.4	8.0	7.2
SW	1.8	4.9	6.7	3.5	2.2		19.0	22.4	19.7	21.7	18.8	17.4
W	1.6	6.6	9,3	8.0	3.8		29.4	25.0	26.8	27.6	32.9	30.1
NW	1.2	5.2	9.7	7.6	3.5		27.2	25.4	28.0	26.3	24.6	28.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6						.6	.0	1.2	. 8	.6	.4
TOT DBS	247	586	763	525	250	2371		22.4	322	626	315	1108
TOT PCT	10.4	24.7	32.2	22.1	10.5		100.0		100.0	100.0	100.0	100.0

2	w	-	м	•	R

PER IOD:	(PRIMARY)	1902-197 1868-197						TABLE 4				AREA	MAGELLAN 05 73	STRAIT	WEST
				PER	CENTAGE	FREQUE	NCY OF	WIND SP	EE0 84	HOUR	(GMT)				
						WIND	SPEED !	(KNOTS)			PCT	TOTAL			
		HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	085			
		00603	1.2	5.6	16.8	32.9	24.2	15.2	4.0		100.0	322			
		96609	. 8	4.2	16.5	30.5	26.5	14.1	7.5	22.9	100.0	626			
		12615	.6	3.8	16.2	31.1	27.3	14.0	7.0	22.7	100.0	315			
		18621	.4	3.2	15.7	31.9	30.2	13.9	4.6	22.4	100.0	1108			
		TUT	15	92	382	749	665	335	133	22.4		2371			
		PCT	.6	3.9	16.1	31.6	28.0	14.1	5.6		100.0				

	Τ,	ALE 5								T	ABLE 6					
		DIRFC		EIGHTHS) MEAN			PERCEN	TAGE F	REQUEN	CY DF	CEILIN NH <5/	B BY	IND D	FT, NH	>4/8) DN	
3-4	5-7	9 6	TOTAL	CLOUD	000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	DBS
1.4	1.9	13.4		7.4	.0	.0	.0	6.5	5.6	1.4	.0	.0	.0	.0	3,2	
.0	.0	3.2		8.0	.0	.0	.0	.0	1.9	1.4	.0	.0	.0		.0	
.0	1.9	4.6		7.7	.0	.0	.0	1.9	1.9	2.8	.0	.0	.0	.0	.0	
.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	2.3		8.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.9	
6.9	13.9	7.9		5.9	.0	.0	.0	5.1	8.8	4.6	.0	.0	.0	.0	10.2	
8.3	10.2	20.4		6.3	.0	.0	.0	10.6	13.4	.5	1.9	.0	.0	.0	14.4	
.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	1.9	.0		6.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	
9	16	28	54	6,5	0	0	0	13	18	6	- 1	0	0	0	16	
16.7	29.6	51.9	100.0		.0	.0	.0	24.1	33.3	11.1	1.9	.0	.0	.0	29.6	100

						TABLE	7			
				ULATIVE F CEILIN				DCCURRE	NÇE	
						VSBY (NM)			
		FEFT'	- OR	• OR >3	• OR >2	• OR >1	= OR >1/2	- OR >1/4	>50YD	= DR >0
:		>6500	.0	.0	:0	:0	.0	:0	:0	:0
:	OR	>3500	1.9	3.7	3.7	3.7	3.7 14.8	3.7	3.7	3.7
	OR	>1000	22.2	44.4	46.3	48.1	48.1	48.1	48.1	48.1
:	OR	>300	29.6	53.7	63.0	70.4	70.4	70.4	70.4	70.4
		> O TOTAL	29.6	53.7	63.0	70.4	70.4	70.4	70.4	70.4
		10126		•				-		
	TO	TAL NUMB	ER OF DB	SI 5	4	P	CT FREQ	NH <5/81	29.6	

		P	ERCENT	AGE FRE	Q OF	LOW C	LOUDS	(EIGHT	45)	
0	1	2	3	4	5	6	, ,	. 8	OBSCO	TOTAL
.0	1.5	7.7	12.3	7.7	9.2	12.3	10.8	38.5	.0	65

MO	٧	E	M	A	E	R	

								NOV	EMBER					
PERIOD:	(PRIMARY) 1 (OVER-ALL) 1	902-1977 868-1977						TA	BLE 8				ARE	A 0025 MAGELLAN STRAIT WEST
			P	ERCENT	PRECI	F WIN	D DIRE	CTIUN TH VAR	VS DCC	URRENC	E OR N	ON-OCC	URRENC	E OF
	VSBY		N	NE	E	SE	5	SW	*	NW	VAR	CALM	PCT	TOTAL DBS
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	<1/2	NO PCP	.0	.0	.0	.0	.0	.0	,0	.0	.0	.0	.0	
		TOT *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		PCP	.4	.0	.0	.0	.0	.4	.4	1.1	.0	.0	2.1	
	1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	
		TOT %	.4	.0	.0	.0	.0	.4	.4	2.5	.0	.0	3.5	
		PCP	.0	.0	.0	.0	.0	.0	.5	2.3	.0	.0	2.8	
	1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	
		TOT \$.0	.0	.0	.0	.0	.0	.0	3.7	.0	.0	4.2	
		PCP	1.1	.0	.0	.0	.0	.7	1.8	4.2	.0	.0	7.7	
	2<5	NO PCP	.0	.0	.0	.0	.0	.7	.5	.2	.0	.0	1.4	
		TOT \$	1.1	.0	.0	.0	.0	1.4	2,3	4.4	.0	.0	9.2	
		PCP	1.8	.0	.0	.0	.0	3.9	3,5	3.5	.0	.0	12.7	
	5<10	NO PCP	3.2	1.4	2.1	.0	.0	2.8	6.5	14.3	.0	.0	30.3	
		TOT \$	4.9	1.4	2.1	.0	.0	6.7	10.0	17.8	.0	.0	43.0	
		PCP	.0	.0	.0	.0	.0	.0	2.1	.7	.0	.0	2.8	
	10+	NO PCP	3.5	1.6	2.5	.0	2.1	4.2	10.9	11.1	.0	1.4	37.3	
		TOT &	3.5	1.6	2,5	.0	2.1	4.2	13.0	11.8	.0	1.4	40.1	

TOT NBS TOT PCT 9.9 3.0 4.6 .0 2.1 12.7 26.2 40.1 .0 1.4 100.0

-

SBY	SPD	N	NE	E	SE	S	SW		NW	VAR	CALM	PCT	TOTAL
(MM)	KTS					_							OBS
	0-3	.0	•0	•0	•6	.0	.0	.0	.0	.0	.0	•0	
(1/2	4-10	.0	•0	•0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	•0	•0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.3	.0	.0	.0	.0	.3	, 3	2.2	.0		3.1	
	TOT %	.3	•0	.0	.0	.0	.3	.3	2.2	.0	.0	3.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	,5	. 8	.0		1.2	
	22+	.0	.0	.0	.3	. 9	.0	.6	2.5	.0		4.3	
	TOT \$.0	.0	.0	.3	.9	.0	1.1	3.2	.0	.0	5.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
2<5	4-10	.0	.0	.0	.0	.0	.6	.5	.2	.0		1.2	
	11-21	.6	.0	.0	.0	.0	.0	1.5	1.5	.0		3.7	
	22+	.9	.0	.0	.0	. 9	.9	.0	2.2	.0		4.9	
	TOT \$	1.5	•0	.0	.0	.9	1.5	2.0	4.5	.0	.0	10.5	
	0-3	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	.6	
5<10	4-10	.0	.0	.0	.0	.0	2.3	3.1		.0		6.2	
	11-21	1.9	1.2	1.9	.0	.0	.6	3.2	8.5	.0		17.3	
	22+	3.1	.0	.0	.0	.0	2.8	2.0	6.3	.0		14.2	
	TOT \$	4.9	1.2	1.9	.0	.0	5.9	8.8	15.6	.0	.0	38.3	
	0-3	.0	.0	1.1	.2	.3	1.5	.0	.6	.0	1.2	4.9	
10+	4-10	.3	.3	1.2	.0	.3	1.9	4.0	1.9	.0		10.5	
	11-21	2.2	1.1	.3	.0	1.5	.9	6.5	3.5	.0		16.0	
	22+	.6	.0	.0	.0		.6	2.9	6.9	.0		11.1	
	TOT &	3.1	1.4	2.6	.2	2.2	4.9	14.0	13.0	.0	1.2		

			E	

PERIOD: (PRIMARY) 1902-1977 (DVER-ALL) 1868-1977

TABLE 10

AREA 0025 MAGELLAN STRAIT WEST

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
£0300	.0	.0	•0	23.1	30.8	15.4	.0	.0	.0	.0	69.2	30.8	13
90380	.0	.0	.0	28.6	21.4	14.3	.0	.0	.0	.0	64.3	35.7	14
12615	.0	.0	•0	12.5	43.8	6.3	.0	.0	.0	.0	62.5	37.5	16
18621	.0	.0	.0	26.7	26.7	6.7	13.3	.0	.0	.0	73.3	26.7	15
TOT	0	.0	0	22.4	18	10.3	3.4	.0	0	.0	67.2	19 32.8	58 100-0

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(MM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00203	.0	5.7	5.7	17.1	31.4	40.0	35	00403	.0	.0	25.0	50.0	25.0	12
90360	.0	2.2	6.5	4.3	43,5	43.5	46	06609	.0	.0	30.8	38,5	30.8	13
12615	.0	.0	7.9	15.8	39,5	36.8	38	12615	.0	.0	33.3	40.0	26.7	15
18621	.0	4.0	2.0	6.0	44.0	44.0	50	18821	.0	.0	21.4	50.0	28.6	14
PCT	.0	3.0	5.3	17	68	70	169	TOT	.0	.0	15 27.8	44.4	15 27.8	100.0

TABLE 13

TABLE 1

	PERC	ENT FR	EDUENC	Y UF P	ELATIV	E HUM1	DITY B	Y TEMP	-0-41	PCT		PERC	ENT FRE	QUENC	Y OF 1	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	OBS	FREQ	N	NE	E	SE	s	SW	W	NW	VAR	CALM
55/59 50/54	.0	.0	.0	.0	.0	.0	.6	.0	1	.6	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0
50/54	.0	.0	1.8	2.4	1.8	1.2	:6	.0	13	7.6	1.8	.6	.6	.0	.0	1.6	2.5	.6	.0	.0
45/49	.0	.0	.0					5,3	61	35.9	3.8	.0	.6	.0	3.4	2.6	11.3	14.1	.0	.0
40/44	.0	.0	.0		2.4					47.1	1.6	1.0	.7	.0	1.8	7.5	17.9	16.5	.0	.0
35/39	.0				.0	2.4	1.8	4.7	15	8.8	.0	1.3	2.2	.6	.6	2.1	1.8	.3	.0	.0
TOTAL	0	0	3	14	13	43	48	49	170	100.0										
PCT	.0	.0	1.8	8.2	7.6	25,3	28,2	28,8			7.2	2.9	4.1	.6	5.7	13.8	33.5	32.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOU

		E.	110	PFRCE	11163	aE	100	, .	· nuck
HOUR (GMT)	MAX	99\$	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	53	50	48	43	37	34	31	42.9	313
06609	55	48	47	42	36	34	31	41.8	607
12815	55	50	49	43	37	34	33	43.0	301
18621	57	54	50	44	38	35	32	44.0	1055
TOT	57	52	49	43	37	34	31	43.1	2276

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR
0-29 30-59 60-69 70-79 80-89 90-100 MEAN TO

(GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60300	.0	15.0	15.0	17.5	30.0	22.5	78	40
90300	.0	6.7	8.9	24.4	17.8	42.2	82	43
12615	.0	2.9	2.9	32.4	44.1	17.6	82	34
18821	.0	13.5	5.8	26.9	25.0	28.8	78	52
TOT	0	17	14	43	48	49	80	171

NOVEMBER

PERIOD: (PRIMARY) 1902-1977 (OVER-ALL) 1868-1977

TABLE 17

AREA 0025 MAGELLAN STRAIT WEST 54.08 73.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

VS	AIR	-SEA	TEMPE	RATURE	DIFF	ERENCE	(DEG F)		
AIR-SEA	33	40	41	45	49 52	53 56	TOT	FOG	FOG
9/10	.0	.0	.0	.0	.0	1.5	2	.0	1.5
7/8	.0	.0	.0	.0	.0	.7	1	.0	.7
5	.0	.0	.0	.7	.0	.7	2	.7	.7
4	.0	.0	.0	.0	.7	.0	2	.0	.7
3	.0	.0	1.5	3.0	.7	.0	7	.0	4:7
2	.0	.0	6.7		1.5	.0	21	.7	14.8
1	.0	.0	7.4	3.0	.0	.0	14	.7	9.6
ō	.0	1.5	14.1	5.9	.0	.0	29	2.2	19.3
-1	.0	.7	4.4	3.7	. 7	.0	13	. 7	8.9
-3	.0	6.7	6.7	1.5	.0	.0	20	1.5	13.3
-3	.0	3.7	1.5	1.5	.0	.0	9	.7	5.9
-4	.0	2.2	1.5	.7	.0	.0	6	.0	4.4
-5	.7	3.0	.0	.7	.0	.0	6		4.4
-6	.7	1.5	.7	.7	.0	.0	6	:0	2.2
TOTAL	2	•••	60	•	5	• •		12	123
		26		38		4	135	-	
PCT	1.5	19,3	44.4		3.7	3.0	100.0	8.9	91.1

PERIOD: (DVER-ALL) 1963-1977

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	CTION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47		PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.5	.0	.0		2,5		.0	.0	. 8	.0	000000000000000000000000000000000000000	.0	. 8
3-4	.0	.0	.0	.0	.0		10.0		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	10.0	.0	.0		10.0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	3.3	.0		9,9		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	5.0		5.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	0000		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0		•0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0		0		.0	:0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
/1-80	.0	.0	.0	•0	.0		• 0		.0	:0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	.0	12.5	3.3	5.0	.0	20.8		.0	.0	.8	.0	• 0	.0	.0
TOT PET	.0	.0	12.5	3.3	3.0	.0	20.0		.0			.0	.0	••	.0
				F								22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	• 0	.0	.0	.0	3,3		.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	3.3	.0	.0	.0	3,3		•0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	••	.0	.0
8-9	.0	.0	.0	.0	.0	.0	•0		.0	.0	.0	.0	• •	.00.00	.0
10-11	.0	.0	.0	.0	.0	.0	•0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0		• 0		.0	• 0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• •	.0	.0
17-19 20-22	.0	.0	.2	.0	.0	.0	• 0		:0	.0	.0	.0	• •	.0	.0
20-22	.0	:0	.0	.0	:0	.0	• 0		.0	.0	.0	:0	• 0	.0	.0
23-25		.0	.0	.0	.0	.0	.0		•0	••		.0	• •	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	:0	.0	.0	:0	.0	000000000000000000000000000000000000000		.0		.0	.0	000000000000000000000000000000000000000	.0	
49-60	.0	:0	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0	.0
44-60		:0	.0	.0	.0	.0	.0		.0	:0	.0	.0	•0	.0	.0
61-70 71-86	.0	:0	.0	.0	:0		.0		:0	.0	.0	.0	.0	.0	.0
71-80		.0	.2		:0		.0		:0				.0	.0	.0
87+ TOT PCT	.0	.0	3.3	.0	:0				.0	.0	.0	.0	.0	.0	:0
TUT PET	.0	.0	3, 5	•0	.0	.0	,,,		.0	.0	.0	.0	.0	.0	.0

acaten. (0058 444)	1044 10-9	NOVEMBER
PERIOD: (OVER-ALL)	1903-1977	740. F 10 (CONT

AREA 0025 MAGELLAN STRAIT WEST 54.05 73.9W

PCT	FREQ	OF	WIND	SPEED	(KTS)	AND	DIRECTION	VERSUS	SEA	HEIGHTS	(FT

TABLE 18 (CONT)

				PC	T FREQ	OF WIND	SPEED	(KTS) AN	D DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)			
				5			100					22-33				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21		34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	. 0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	3.3	.0	.0	3.3	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	3.3	.0	.0	3.3	
				W	34-47							22-33				TOTAL
HGT	1-3	4-10	11-21	22-33		48+	PCT		1-3	4-10	11-21		34-47	48+	PCT	PCT
<1	.0	.0	.0	-0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
1-2	.0	3,3	6.7	.0	.0	.0	10.0		.0	.0	.0	.0		.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0		.0	6.7	3.3	.0	.0	.0	10.0	
5-6	.0	.0	6.7	.0	.0	•0	6.7		.0	.0	.0	3.3	.0	.0	3.3	
7	.0	.0	15.8	.0	.0	• 0	15.8		.0	.0	. 8	.0	.0	.0	. 8	
8-9	.0	.0	.0	.0	.0	•0	.0		.0	.0	.0	3.3	.0	.0	3.3	
10-11	.0	.0	.0	5.8	.0	•0	5,8		.0	.0	3,3	. 8	.0	.0	4.2	
12	.0	.0	.0	.0	.0	•0	.0		.0	.0	.0	.0	. 0	.0	.0	
13-16	.0	.0	.0	.0	.0	•0	.0		.0	.0	.0	.0	11.7	.0	11.7	
17-19	.0	.0	.0	.0	.0	•0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	•0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	• 0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	• 0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0	
71-86	.0	.0	- 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	11.7	.0	.0	
TOT PCT	.0	3.3	29.2	5.8	.0	•0	38,3		.0	6.7	7.5	7.5	11.7	.0	33.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (PT)

HGT	0-3	4-10	11+21	22-33	34-47	48+	PCT	TOT
<1	.0	.0	.0	.0	.0	.0	.0	082
1-2	.0	3,3	10.0	.0	.0	.0	13.3	
3-4	.0	6.7	6.7	.0	.0	.0	13.3	
5-6	.0	.0	16.7	6.7	.0	.0	23.3	
7	.0	.0	16.7	.0	.0	.0	16.7	
8-9	.0	.0	.0	3.3	.0	.0	3.3	
10-11	.0	.0	3.3	10.0	.0	.0	13.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	16.7	.0	16.7	
17-19	.0	.0	• 0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
	1.							30
TOT PCT	.0	10.0	53.2	20-0	16.7	-0	100.0	

PERIOD: (DVER-ALL) 1958-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) YS WAVE PERIOD (SECONDS)

(SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	HEAN
<6	.0	3.1	17.2	.0	1.6	.0	1.6	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
6-7	.0	.0	3.1	1.6	.0	1.6	4.7	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
8-9	.0	.0	1.6	1.6	4.7	3.1	3.1	3.1	7.8	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	11
10-11	.0	.0	.0	.0	1.6	6.3	4.7	.0	10.9	3,1	1.6	.0	.0	.0	.0	.0	.0	.0	.0	18	12
12-13	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
TOTAL	0	3	14	2	5	7	10	6	12	4	1	0	0	0	0	0	0	0	0	64	9
PCT	-0	4.7	21.9	2.1	7.8	10.0	15.4	0.4	10.0	A 3	1.4	. 0	0		. 0	- 0	0	. 0	0	100 0	

TABLE 1

AREA 0025 MAGELLAN STRAIT WEST 54.25 73.6W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
NO DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST	THOR	FDG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUS' BLWG SND	
N	.0	.0	10.8	.0	.0	.0	.0	10.8	6.1	.0	5.4	.0	8.1	.0	67.6
NE	18.2	.0	18.2	.0	.0	.0	.0	36.4	.0	.0	.0	.0	.0	.0	63.6
E	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
S E	.0	.0	.0	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	77.8
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	4.9	9.9	.0	.0	.0	2.5	17.3	2.5	.0	.0	.0	4.9	.0	75.3
W	5.0	4.0	3.0	.0	.0	.0	1.0	11.1	3.0	.0	6.0	.0	2.0	.0	77.9
NW	18.9	6.7	7.8	.0	.0	.0	.0	33.3	2.8	.0	5.6	.0	7.2	.0	51.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	8.8	3.4	6.1	.0	.0	.0	.7	18.9	3.4	.0	4.1	•0	4.1	.0	69,6

TABLE 2

DEDCENT	EREQUENCY	ne	MEATHER	DECLIPPENCE	0	HOUR

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	8.1 8.1 9.5 15.6	5.4 .0 4.8 4.4	10.8 5.4 9.5 2.2	.0	.0	.0	.0 .0 .0 2.2	24.3 13.5 23.8 24.4	5.4 2.7 .0 6.7	.00	2.7 2.7 4.8 4.4	.0	5.4 .0 7.1 2.2	.0	62.2 81.1 64.3 62.2
TOT PCT TOT OBS:	10.6	3.7	6.8	•0	•0	.0	.6	21.7	3.7	.0	3.7	•0	3.7	.0	67.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	NO SPE	ED (KN	OTS)									(GMT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21	
N	.3	2.1	2.8	2.3	1.1	.3		8.9	20.2	7.0	12.5	10.7	8,9	8,8	8.3	8.8	9.3	
NE	.3	1.4	1.3	.4	. 1			3.5	12.9	4,3	.0	4.1	2.8	4.0	4.2	3.4	2.5	
E	.4	1.1	.7	.2	.0	.0		2.3	10.1	1.6	.0	2.4	2.4	2.6	12.5	2.5	1.9	
SE	.5	1.2	.9	. 2	. 1	.0		2.9	11.3	1.6	.0	2.1	3,3	2.8	16.7	3.9	1.7	
S	. 8	1.8	2.0	. 8	, 3	. 1		5.6	14.0	7.6	6.3	6.4	5,6	4.1		6.0	3.3	
SW	.7	4.1	6.2	4.2		. 2		16.3	17.6	15.3	12.5	15.6	23.1		.0	15.1	14.9	
W	.7	4.4	11.3	7.7	3,5	. 5		28.1	20.6	26.1	37.5	24.4	26.0	27.0		30.3	30.1	
NW	.9	5.4	12.1	8.2		. 9		31.0	20.6	34.3	18.8	33.0		32.8	25.0	28.6	35.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.3	• •	•	• •	•	•		1.3	.0	2.1	12.5	1.4	.7	1.0	.0	1.3	. 8	
TOT OBS	133	493	849	547	215	46	2283		18.7	288	. 8	295	274	295	6	864	253	
TOT PCT	5.8	21.6	37.2			2.0		100.0			100.0		100.0		100.0		100.0	

. Δ	A	L	F	3	A

WND DIR	0=6	WIND 7-16	SPEED 17-27		41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18 21
N	1.1	2.9	2.4	1.8	.7		8.9	20.2	7.2		8.8	8.9
NE	.9	1.6	• '	• 2	• 1		3.5	12.9	4.1	3.5	4.0	3.2
•	. 8	1.1	.3	•1	.0		2.3	10.1	1.6	2.4	2.8	2.4
SE	1.0	1.2	.6	• 1	.1		2.9	11.3	1.6	2.7	3.1	3.4
5	1.5	2.0	1,5	.4	.2		5.6	14.0	7.6	6.0	4.0	5.4
SW	2.4	5.4	5,2	2.8	.5		16.3	17.6	15.2	19.2	16.5	15.1
W	2.4	8.0	10.5	5.3	1.9		28.1	20.6	26.4	25.2	27.2	30.3
NW	2.4	10.1	10.4	5.8	2.3		31.0	20.6	33.9	30.2	32.6	30.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	2.4	1.1	1.0	1.2
TOT GBS	317	735	724	377	130	2283		18.7	296	569	301	1117
TOT PCT	13.9	32.2	31.7	16.5	5.7		100.0			100.0		

DE	c	MI	IF	R

PERIOD:	(PRIMARY)	1898-1976
	(DVER-ALL)	1860-1974

TABLE 4

AREA 0025 MAGELLAN STRAIT WEST 54.25 73.6W

PERCENTAGE	EREQUENCY	n.F	WIND	SPEED	BV	HOUR	(GMT)	

				MIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
00603	2.4	5.7	20,3	39.2	22.6	8.8	1.0	17.7	100.0	296
90300	1.1	4.6	22.7	34.3	25.3	9.7	2.5	19.0	100.0	569
12615	1.0	4.3	21.6	39.5	23.3	8.3	2.0	18.3	100.0	301
18621	1.2	4.3	21.4	37.5	23.8	9.8	2.1	18.9	100.0	1117
TUT	29	104	493	849	547	215	46	18.7		2283
PCT	1.3	4.6	21.6	37.2	24.0	9.4	2.0		100.0	

T.D. - -

TABLE 6

P	CT FRE	Q OF T	OTAL (DIRFO	MOUNT TION	(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN NH <5/	B BY W	HTS (T,NH)4/8)]N	
WND DIR	0-2	3-4	5-7	8 & 085CD	TOTAL	CLOUD	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N	.0	.0	1.9	4.9		7,2	.0	.0	.7	2.9	1.0	.5	.0	.0	.0	.7	1.0	
NE	.0	.0	1.0	2.4		7.4	.0	.0	.0	. 2	1.0	1.2	.0	.0	.0	.0	1.0	
E	.0	.0	.0	3.4		8.0	.0	.0	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	
SE	.0	.0	2.9	.0		7.0	.0	.0	1.0	.0	1.0	.0	1.0	.0	.0	.0	.0	
S	.0	1.5	.0	1.2		5.6	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	1.9	
Sw	1.0	3.9	8.3	3.6		5.4	.0	.0	1.0	.0	3.6	5.1	.5	.0	.0	.0	6.6	
*	2.7	9.5	12.1	12.6		5.7	1.0	.0	.0	1.5	5.1	9.5	. 5	.0	.0	1.0	18.4	
NW	. 2	1.7	6.8	15.5		7.2	1.9	.0	1.2	1.5	7.0	5.3	.0	.0	.0	.2	7.0	
VAR	.0	.0	.0	.0		. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	2.9		8.0	.0	.0	.0	.0	.0	1.9	1.0	.0	.0	.0	.0	
TOT OBS	4	17	34	48	103	6.3	3	0	4		20	26	3	0	o	. 2	37	103
TOT PCT	3.9	16.5	33.0	46.6	100.0		2.9	.0	3,9	7.8	19.4	25.2	2.9	.0	.0	1.9	35.9	100.0

TABLE 7

CUMULATIVE	PCT FREQ	OF	SIMULTANEOUS	DCCURRENCE
OF CETLIN	NG HETCHE	/ NI	A SA / BI AND W	ERV INH

					VSBY (NH	1)			
CI	FILING	- OR	- OR	· DR	- OR	- OR	• OR	• DR	- OR
(1	FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
nR	>6500	.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
OR	>5000	.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
OR	>3500	1.8	3.6	4.5	4.5	4.5	4.5	4.5	4.5
nR	>2000	12.5	26.8	29.5	29.5	29.5	29.5	29.5	29.5
	>1000	20.5	43.8	49.1	49.1	49.1	49.1	49.1	49.1
	>600	22.3	50.9	57.1	57.1	57.1	57.1	57.1	57.1
	>300	22.3	51.8	59.8	59.8	59.8	60.7	60.7	60.7
	>150	22.3	51.8	60.7	60.7	60.7	61.6	61.6	61.6
	> 0	22.3	51.8	61.6	62.5	62.5	65.2	65.2	65.2
	TOTAL	25	58	69	70	70	73	73	73

TOTAL NUMBER OF DESI 112

PCT FREQ NH <5/81 34.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	OBS	
. 8	2.5	10.1	13.4	6.7	9.2	10.9	8.4	34.5	3.4	119	

0.	-		0		

								DEC	EMBER								
PERIOD:	(PRIMARY) 1 (OVER-ALL) 1	898-1976 860-1976						TA	866 8				ARE	A 0025	MAGELLA	AN STRAIT	WES
			P	ERCENT						ALUES				E OF			
	VSBY (NM)		N	NE	E	SE	s	SW		NW	VAR	CALM	PCT	TOTAL DBS			
		PCP	.0	:0	.0	.0	.0	.0	.0 .7 .7	.7	.0	.0	.7				
	<1/2	NO PCP	.0	.7	.0	.7	.0	.0	.7	.0	.0	.0	2.0				
		TOT %	.0	.7	• 0	.7	.0	.0	.7	.7	.0	.0	2.7				
		PCP	.0	.0	.0	.0	.0	.0	.3	1.0	.0	.0	1.4				
	1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.4				
		TOT %	.0	.0	.0	.0	.0	.0	1.0	1.7	.0	.0	2.7				
		PCP	.0	.0	.0	.0	.0	.0	1.0	2.4	.0	.0	3.4				
	1<2	NO PCP	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7				
		TOT %	.0	.0	.0	.0	.0	.0	1.7	2.4	.0	.0	4.1				
		PCP	.7	.7	.0	.0	.0	.7	1.0	1.7	.0	.0	4.7				
	2<5	NO PCP	.5	.0	,3	1.0	.0	.7	.0	1.5	.0	.0	3.4				
		TOT \$	1.2	.7	. 3	1.0	.0	.7	1.0	3.2	.0	.0	8.1				
		PCP	.0	.7	.7	.0	.0	.7	1.0	3.7	.0	.0	6.8				
	5<10	NO PCP	3.4	. 2	1.5	. 3	1.2	4.9	10.3	7.9	.0	.7	30.4				
		TOT %	3.4	. 8	2.2	.3	1.2	5.6	11.3	11.7	.0	.7	37.2				
		PCP	.0	.0	.0	.0	.0	1.0	, 3	.7	.0	.0	2.0				
	10+	NO PCP	1.7	1.5	2.9	1.0	. 7	6.4	17.6	10.1	.0	1.4	43.2				
		TOT %	1.7	1.5	2.9	1.0	.7	7.4	17.9	10.8	.0	1.4	45.3				
		TOT 000												140			

TOT DBS TOT PCT 6.3 3.7 5.4 3.0 1.9 13.7 33.6 30.4 .0 2.0 100.0

							INDE						
				PERCEN	T FREQ	DF WI	ND DIR	ECTION	VS WI	ND SPE	ED		
VSBY (NM)	SPD	N	NE	E	SE	s	SH	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.6	.0	.0	.0	.0	.0	.0	.0		.6	
	11-21	.3	.0	.0	.0	.0	.0	1.3	1.0	.0		2.6	
	22+	.0	.0	.0	.6	.0	.0	.0	.0	.0		.6	
	TOT %	.3	.6	.0	.6	.0	.0	1.3	1.0	.0	.0	3.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	1.3	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	1.0	1.6	.0		2.6	
	TOT \$.0	•0	.0	•0	.0	.0	1.0	2.9	.0	.0	3.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	• 0	.0	.0	.6	.0	.0		.6	
	22+	.0	.0	.0	• 0	.0	.0	1.0	2.3	.0		3.2	
	TOT \$	•0	•0	• 0	• 0	•0	.0	1.6	2.3	.0	.0	3.9	
	0-3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
2<5	4-10	.6	.0	.3	.3	.0	.0	.0	.0	.0		1.3	
	11-21	.5	.6	.0	• 0	.0	.6	.5	2.3	.0		4.5	
	22+	.0	.0	.0	.0	.0	.0	.5	1.5	.0		1.9	
	TOT %	1.1	.6	.3	1.0	.0	.6	1.0	3.7	.0	.0	8.4	
_	0-3	.0	.0	.6	.0	.0	.0	. 6	.0	.0	.6	1.9	
5<10	4-10	.0	•0	1.0	.3	. 3	1.0	1.8	.2	.0		4.5	
	11-21	2.7	.8	.5	•0	. 3	3.2	4.8	8.2	.0		20.6	
	22+	.5	.0	.0	.0	.5	1.1	3.5	2.7	.0		8.4	
	TOT \$	3.2	.8	2.1	.3	1.1	5.3	10.8	11.1	.0	.6	35.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	
10+	4-10	. 3	1.3	1.9	.6	.5	2.9	6.3	3.5	.0		17.4	
	11-21	1.3	• 2	. 8	.3	.0	2.9	7.1	4.2	.0		16.8	
	22+	0	.0	.0	0	.6	2.1	3.7	2.6	.0		9.0	
	TOT #	1.6	1.5	2.7	1.0	1.1	7.9	17.1	10.3	.0	1.3	44.5	
	OT ORS								11.3	-0		100-0	155
	OT OFT	6.2	2.5	6.2	2.0								

0				

PERIOD: (PRIMARY) 1898-1976 (QVEK-ALL) 1860-1976

TABLE 10

AREA 0025 MAGELLAN STRAIT WEST 54.25 73.6W

PERCENT	FREQUENCY		HEIGHTS	>4/81	AND

HOUR (GMT)	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DB5
60300	3.2	3.2	•0	9.7	22.6	19.4	3.2	.0	.0	.0	61.3	38,7	31
06609	.0	.0	•0	4.0	20.0	32.0	.0	.0	.0	.0	56.0	44.0	25
12615	6.7	.0	10.0	6.7	13.3	30.0	.0	.0	.0	6.7	73.3	26.7	30
18621	3.7	.0	3.7	11.1	22.2	18.5	7.4	.0	.0	.0	66.7	33.3	27
PCT	3.5	.9	3.5	8.0	19.5	28	2.7	.0	.0	1.8	73	35.4	113

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSB	(MM)	BY HOUR		CUMULAT					VSBY (NM) 1,8Y HOUR	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	2.5	2.5	2.5	12.5	32.5	47.5	40	00803	3,2	6.5	22.6	38.7	38.7	31
06609	.0	.0	5.4	8.1	40.5	45.9	37	06809	.0	.0	12.0	48.0	40.0	25
12615	6 - 8	4.5	.0	11.4	36.4	40.9	44	12815	6.7	16.7	26.7	46.7	26.7	30
18621	4.3	6.4	6.4	10.6	36.2	36.2	47	18621	3,8	7.7	26.9	42.3	30.8	26
TOT PCT	3.6	3.6	3.6	18	36.3	42.3	168	TOT	3.6	8.0	25	49	38 33.9	112

TA	R	13

	PERC	ENT FR	EQUENC	V OF R	FLATIV	E HUMI	DITY B	Y TEMP			
TEMP F								90-100	TOTAL	PCT FREQ	
55/59	.0	.0	.7	.7	.7	1.4	.0	.0	5	3.4	
50/54	.0	.0	.7	1.4	6.8	4.7	5.4	2.7	32	21.6	
45/49	.0	.0	.0	2.7	2.7	9.5	11.5	22.3	72	48.6	
40/44	.0	.0	.0	.0	. 7	6.8	8.1	10.1	38	25.7	
30/34	.0	.0	.0	.0	.0	.0	.0	. 7	1	.7	
TOTAL	0	0	2	7	16	33	37	53	148	100.0	
DCT	- 0	- 0	1.4	4 7	10.8	22.3	25.0	25. R			

TABLE 14

	0506			ne u				- 40	
	PERC	ENT PK	EQUENCY	UF W	IND DI	KECIIU	N BY TE	HP	
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	1.2	.0	•0	.0	1.4	.0	.0	.7
4.1	1.5	. 5	1.4	. 7	2.4	5.4	5.7	.0	.0
4.1	1.0	1.9	.7	. 5	3.7	14.7	22.1	.0	.0
. 8	1.4	.0	.0	.0	3.7	9.3	9.1	.0	1.4
.0	.7	.0	•0	.0	.0	.0	.0	.0	• 0
9.0	4.7	3.5	2.0	1.2	9.8	30.7	37.0	.0	2.0

TABLE 15

	MEMNS	EVILEN	E3 AND	PENCE	Lires	U- 15	IF TUE	0 1 0	HUUN
HOUR (GMT)	MAX	99%	95%	50%	5%	18	WIN	MEAN	TOTAL
00803	59	55	52	46	40	37	37	45.7	29
90360	57	52	50	44	39	37	36	44.2	560
12615	57	54	51	45	39	37	34	45.2	29
18621	59	56	52	46	41	39	33	46.3	108
TOT	59	55	52	46	40	37	33	45.6	2221

0 0

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	NAIDIAA	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	.0	8.6	5.7	20.0	31.4	34.3	82	35
06609	.0	3.2	9.7	32.3	9.7	45.2	84	31
12615	.0	4.5	4.5	18.2	38.6	34.1	85	44
18621	.0	6.4	19.1	19.1	23.4	31.9	80	47
TOT	0	9	16	34	42	56	82	157

DECEMBER

PERIOD: (PRIMARY) 1898-1976 (DVER-ALL) 1860-1976

TABLE 17

AREA 0025 MAGELLAN STRAIT WEST

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (MITHOUT PRECIPITATION)
VS. AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

*3	MIN.	-3CM	CHE	MIUNE	011	EVENCE	(DEG F)		
AIR-SEA	37	41	45	49	53	57	707	*	WD
TMP DIF	40	44	48	52	56	60		FOG	FOG
11/13	.0	.0	.0	.0	.0	. 8	1	.0	. 8
9/10	.0	.0	. 8	. 8	1.6	.0	4	.0	3.1
7/8	.0	.0	.0	.0	1.6	.0	2	.0	1.6
6	.0	.0	. 8	3.9	2.3	. 8	10	.0	7.8
5	.0	.0	.0	1.6	. 8	.0		.0	2.3
4	.0	.0	2.3	3.1	. 8	.0	8	.0	6.3
3	.0	.0	3.1	3.1	.0	.0	3 8 8	.0	6.3
2	.0	. 8	4.7	7.0	.0	.0	16	.0	12.5
ī	. 8	1.6	7.8	4.7	. 8	.0	20	1.6	14.1
ō	.0	5.5	3.9	4.7	. 0	.0	18	3.1	10.9
-1	.0	6.3	4.7	. 8	.0	.0	15	.0	11.7
-2	.0	5,5	4.7	.0	.0	.0	13	.0	10.2
-2	.0	. 8	1.6	.0	.0	, 0	3	.0	2.3
-4	.0	.0	2.3	.0	.0	.0	3	.0	2.3
-6	.0	. 8		.0	.0	.0	ĩ	.0	. 8
-7/-8	. 8	1,6	.0	.0	. 0	.0	3	.0	2.3
TOTAL	2	1,0	47	• •	10		,	.6	122
ICIAL	-	29	- 1	38	10	2	128	0	
PCT	1.6		36.7		7.8	1.6	100.0	4.7	95.3

PERIOD: (DVER-ALL) 1963-1976

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION	ERSUS	SEA HEIG	HTS (FT)	
				N			201					NE	_		
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	.0	.0	.0	.0	.0	.0		.0	1.9	.5	.0	.0	.0	2.4
3-4	.0	.0	1.9	.0	.0	.0	1.9		.0	.0	.0	.0		.0	.0
5-6	.0	.0	1.4	.0	.0	.0	1,4		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	, 0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	1.4	.0	1.4		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	4.7		.0	.0	.0	.0	.0	.0	.0
TOT PCT	•0	.0	3.3	•0	1.4	•0	4.7		.0	3.8	.5	.0	.0	.0	4.2
				E								SF			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	.0	.0	.0	.0	.0	1.9		1.9	1.9	.0	.0	.0	.0	3.8
1-2	.0	1.9	1.4	.0	.0	.0	3,3		.0	.0	.0	.0		.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	:0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	- 0		.0	.0	.0	.0	1.9	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	00000	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	,0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PET	1,9	1.9	1.4	.0	.0	.0	5,2		1.9	1.9	.0	.0	000000000000000000000000000000000000000	.0	5.7

DERIO	PERIOD: (OVER-ALL)		1963-19	44				1	DECEMBER				ADEA	0025	MACEL	LAN STRAI	- 455
		ALL?	1703-41	,,,,				TABLE	18 (CONT)			****			73.6W	4531
				PC	T FREQ D	F WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT	,			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PC	7	
<1	.0	.0	.0	.0	.0	.0	.0		.0	1.9	.0	.0	.0	.0	-	9	

				5							22-33				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	1.9	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	3.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	1.9	.0	.0	3.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0		.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	:0	.0	. 5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	ō	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	,0	.0		.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	ō	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	5.7	3.8	2.4	.0	.0	11.8	
нст	1-3	4-10	11-21	W 22-33	34-47	48+	PCT	1-3	4-10	11-21	NW 22-33	34-47	48+	PCT	TOTAL
<1	1.9	2.8	.0	.0	.0	.0	4.7	.0	2.8	.0	.0	.0	.0	2.8	PCI
1-2	.0	4.7	3.3	.0	.0	.0	8.0	.0	2.8	8.0	.0	:0	.0	10.8	
3-4	.0	1.4	1.9	1.4	.0	.0	4.7	.0	2.4	.0	.5		.0	2.8	
5-6	.0	.0	3,3	1.9	.0	.0	5,2	.0	.0	6.6	.0	.0	.0	6.6	
7	.0	.0	1.9	1.9	.0	.0	3,8	.0	.0	1.9	1.9	. 0	.0	3.8	
8-9	.0	.0	.0	.0	.0	.0	. 0	.0	.0	.0	.0	0	.0	.0	
10-11	.0	.0	3.3	1.4	.0	.0	4.1	.0	.0	. 5	1.9	1.9	1.9	6.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	• 0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
B74	1.9	9.0	13.7	6.6	.0	.0	31.1	.0	8.0	17.0	4.2	2.4	1.9	33.5	96.2

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	9.4	11,3	.0	.0	.0	.0	20.8	003
1-2	.0	13.2	15.1	.0	.0	.0	28.3	
3-4	.0	3,8	3.8	1.9	.0	.0	9.4	
5-6	.0	1.9	11.3	3.8	.0	.0	17.0	
7	.0	.0	3.8	3.8	.0	.0	7.5	
8-9	.0	.0	1.9	.0	.0	.0	1.9	
10-1		.0	3.8	3.8	3.8	1.9	13.2	
12	.0	.0		.0	.0	0		
			.0			.0	0	
13-1		.0	.0	.0	1.9	.0	1.9	
17-1		.0	.0	.0	.0	.0	.0	
20-2		.0	.0	.0	.0	.0	.0	
23-2		.0	.0	.0	.0	.0	.0	
26-3		.0	.0	.0	.0	.0	.0	
33-4	0.0	.0	.0	.0	.0	.0	.0	
41-4	.0	.0	.0	.0	.0	.0	.0	
49-6	0.0	.0	.0	.0	.0	.0	.0	
61-70		.0	.0	.0	.0	.0	.0	
71-8		.0	.0	.0	.0	.0	.0	
87		.0	.0	.0	.0	.0	.0	
	•••			• •	**		••	53
TOT P	CT 9.4	30,2	39.6	13,2	5.7	1.9	100.0	

PERIO	D: (D)	ER-ALL	195	4-197	•					TABLE	19											
					PERCENT	FRE	QUENCY	0F 1	AVI	E HE10	HT IF	T) VS	WAVE P	ERIDO	ISECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	1	2	13-16	17-19	20-22	23-25	26-32	2 33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	4.9	9.8	6.1	2.4	1.2	.0	1.2		0	.0	.0	.0	.0		0.0	.0	.0	.0	.0	.0	21	3
6-7	.0	2.4	7.3	4.9	2.4	.0	2.4		0	.0	.0	.0	:0		0.0	.0	.0	.0	.0	.0	21 16	5
8-9	.0	.0	4.9	1.2	1.2	3.7	.0		0	2.4	1.6	.0				.0	.0	.0	.0	.0	12	8
10-11	.0	3.7	2.4	.0	2.4	.0	1.2		0	2.4	1.2					.0	.0	.0	.0	.0	11	7
12-13	.0	.0	4.9	.0	1.2	.0	.0		0	.0	1.2	.0				.0	.0	.0	.0	.0	6	6
INDET	.0	.0	.0	1.2	.0	.0	1.2		.0	1.2	.0	.0	.0			.0	.0	.0	.0	.0	3	9
INDET	14.6	.0	.0	.0	.0	.0	1.2		.0	.0	.0	.0				.0	.0	.0	.0	.0	13	1
TOTAL	16	13	21	8	7	3	6		0	5	3	0)	0	0	0	0	0	0	82	5
PCT	19.5	15.9	25.6	9.8	8.5	3.7	7.3		.0	6.1	3.7	.0			0.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1898-1978 (OVER-ALL) 1854-1978

TABLE 1

AREA 0025 MAGELLAN STRAIT WEST 53.98 73.98

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

									Decommend			201-0			
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	SIG WEA
N	14.6	0.8	8.7	.0	.4	.0	.0	29.3	6.7	.0	10.2	.4	.9	.0	52.6
NE	15.2	5.8	10.8	.0	1.3	.0	.0	33.0	.0	.0	8.0	.0	.0	.0	59.0
E	13.6	.7	5.2	.0	.0	.0	. 9	20.4	6.0	.0	6.7	.0	.0	.0	67.0
SE	8.7	.4	1.3	.0	.0	.0	.0	10.4	3.7	.0	7.5	.0	.0	.0	70.1
S	3.0	4.8	1.9	.0	3.8	.0	. 9	14.5	3.7	.0	8.9	.0	.0	.7	72.3
SW	4.1	5.7	3.5	.0	8.2	.0	2.0	23.6	3.8	.0	10.8	.0	.4	.0	61.4
W	10.0	8.4	4.3	.0	2.3	.0	2.0	26.5	5.7	. 2	4.7	1.3	.2	. 2	61.2
NW	13.8	10.7	6.5	.0	. 9	.0	. 8	32.2	5.6	.0	7.0	.1	.7	.3	54.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.7	.0	.0	.0	.0	1.7	1.2	.0	1.2	.0	.0	.0	79.3
TOT PCT TOT OBS:	10.8	7.4	5.3	.0	2.0	•0	1.2	26.4	5.1	.1	8.3	.3	.4	.2	59.4

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			F	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	9.7 17.9 11.0 11.5	7.4 7.1 7.0 7.9	5.8 5.6 6.4 4.3	.0	2.3 2.0 .9 2.6	.0	1.5 .7 1.3	25.8 26.6 25.9 27.1	5.9 4.0 7.3 3.5	.0	6.9 9.4 7.9 8.1	.0 .0 .8	.5 .1 .6	.2	60.6 59.4 57.4 60.5
TOT PCT	10.7	7.4	5.5	.0	2.1	.0	1.1	26.4	4.9	•	8.1	.3	.4	.2	59.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

NO DIR	0-3			22-33		48+	TOTAL	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21	
							0-3											
N	.3	1.7	2.5	2.1	1.1	. 4		8.2		7.5	7.3			8.2	12.4	8.8	7.8	
NE	. 2	1.3	1.4	.6	. 2			3.7	14.8	4.0	. 8		3.4	3,4	3.2		4.0	
E	.3	1.2	.9	.3	• 1			2.9	12.3	3.1	2,5	2.8	2.8	2.7	3.9	2.9	2.9	
E SE	.3	1.4	1.2	.5	.2			3.7	13.5	4.1	8.6	3.7	3.5	3.6	7.5	3.4	3.9	
S	. 4	2.0	2.4		.7	. 2		7.1	17.9	7.4	9.6	7.6	7.6	6.8	5.4	7.0	6.3	
SW	.5	3.6	6.1	5.2	2.7	1.0		19.1	22.0	19.2	12.8				8.3		19.7	
W	.5	3.9	9.0	8.5	4.6	1.6		28.2	23.7	26.9	17.2	25.7	27.4	28.5	20.9	29.9	28.2	
NW	.5	3.3	8.1	7.9	4.8	1.7		26.1	24.8	26.6	23.4				21.8		26.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0		.0	.0		.0	
CALM	1.0							1.0	.0	1.1	1.0	1.3	1.0	1.1	.0	1.0	. 6	
TOT OBS							24209		21.8	3274	58	3332	3038		55	8554	2724	
TOT PCT	4.1	18.3	31.7	26.7	14.3	5.0		100.0		100.0		100.0						

-ABI = 3A

WND DIR	0=6	WIND 7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18
						000						
N	1.0	2.3	2.4	1.6	.8		8.2	21.4	7.6	7.8	8.4	8.6
NE	. 8	1.5	1.0	.4	.1		3.7	14.8	3.9	3.5	3.4	3.8
		1.2	.6				2.9	12.3	3.1	2.8	2.8	2.9
S E	.9	1.4	, 9	.2	1		3.7	13.5	4.2	3.6	3.7	3.5
25			.,,	.,	:5							
5	1.1	2.5	2.0	1.1	. 5		7.1	17.9	7.4	7.6	6.8	6.9
SW	1.8	5.2	5,9	4.0	2.0		19.1	22.0	19.1	19.8	19.3	18.6
W	1.9	6.8	9,5	6.6	3.3		28.2	23.7	26.8	26.5	28.5	29.4
NW	1.5	5.9	8,6	6.6	3.5		26.1	24.8	26.6	27.2	26.1	25.4
VAR		.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
	.0	.0										
CALM	1.0					and the second	1.0	.0	1.2	1.2	1.1	.9
TOT OBS						24209		21.8	3332	6370	3229	11278
TOT PCT	10.9	26.9	30,9	20.9	10.4		100.0		100.0	100.0	100.0	100.0

		u	

PERIOD:	(PRIMARY)	1898-1978
	INVER-ALL Y	

AREA 0025 MAGELLAN STRAIT WEST 53.98 73.9W

		TABLE	4			
PERCENTAGE	EREQUENCY	 HIND	-	RV	HOUSE	

				0.000	20000 0					2223
				MIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	08
00603	1.2	3.2	20.1	33.6	24.6	12.4	4.8	20.9	100.0	3332
90300	1.2	2.9	18.7	31.6	26.2	13.9	5.5	21.9	100.0	6370
12615	1.1	2.9	19.5	31.0	26.8	14.0	4.8	21.6	100.0	3229
18621	.9	3.2	17.1	31.3	27.6	15.1	4.8	22.2	100.0	11278
TOT								21.8		24209
PCT	1.0	3.1	18.3	31.7	26.7	14.3	5.0		100.0	

TABLE 5

Po	T FRE		DTAL C	DIREC		(EIGHTHS)							CEILIN					
WND DIR	0-2	3-4	5-7	8 &	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.0	. 9	2.9	8.5		6.8	.1	.4	1.1	2.1	3.8	1.9	.6	.0	.0	.1	3.3	
NE	.6	. 1	.8	1.6		5.1	. 1	.0	. 1	.6	. 6	.5		.0	.0	. 1	1.2	
E	. 5	. 3	. 8	2.6		6.8	.0	.2		.9	1.0	.4	. 1	.4	.0	. 2	1.0	
SE	.0	. 5	1.5	2.1		5.9	.0	.1	. 2	.7	1.4	.2	. 3	.1	.0	.1	1.1	
S	.4	. 7	2.4	2.1		5.2		. 4	. 1	.6	1.8	.7	. 3	.0	.0	.0	1.7	
SW	1.0	1.2	4.1	4.8		6.3		. 4	.7	1.8	3.0	1.6	.4	. 3	.0	.0	3.0	
W	1.7	3.8	10.9	9.7		6.1	.2	.2	1.2	3.3	5.9	3.8	1.2	. 5	.1	.1	9.6	
NW	1.9	2.4	7.9	17.6		6.7	. 5	.4	1.4	4.5	10.0	3.3	1.0	. 3	.0	.1	8.2	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.5	. 7	1.5		4.5	. 1	.0	. 1	.1	. 3	.7	.6	. 2	.0	.0	.6	
TOT OBS	••	.,			1027	6.5	• •		•			1,812	•	•				1027
TOT PCT	7.2	10.4	32.0	50.3	100.0		1.1	2.0	5.0	14.5	27.7	13.1	4.3	1.8	.1	.6	29.7	100,0

TABLE 7 CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

				VSBY (NM	1)			
CEILING	 OR 	 DR 	 DR 	- OR	• DR	- OR	 OR 	- OR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ NR >6500	.3	.6	.6	.6	.6	.6	.6	.6
■ DR >5000	1.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4
■ DR >3500	3.7	6.2	6.8	6.9	6.9	6.9	6.9	6.9
■ DR >2000	9.7	17.6	19.6	19.7	19.7	9.7	19.8	19.8
■ DK >1000	20.1	40.3	45.7	47.2	47.2	4 ,3	47.5	47.6
■ DR >600	25.6	50.5	58.7	61.3	61.3	61 6	61.8	61.9
■ DR >300	27.3	54.6	63.4	66.1	66.2	66.0	66.9	67.0
■ DR >150	27.7	55.7	65.3	68.3	68.4	68.7	69.0	69.1
- DR > 0	27.8	56.1	65.9	69.0	69.2	69.8	70.2	70.3

TOTAL NUMBER OF OBS! 1067 PCT FREQ NH <5/81 29.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 OBSCD OBS 2.7 4.2 7.3 8.5 6.2 8.0 12.5 11.2 38.4 1.0 1147

۸	N	N	"	Δ	1

								AM	INUAL					
PERIOD:	(PRIMARY) 1 (OVER-ALL) 1	898-1978 854-1978						TA	BLE B				ARE	A 0025 MAGELLAN STRAIT WEST 53.95 73.9W
			P	ERCENT	FREO PREC	DF WIN	D DIRE	CTION TH VAR	VS DC	URRENC	E OR N	181L17	URRENC Y	E OF
	VSBY (MM)		N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	<1/2	PCP ND PCP TOT %	.0	.1	•1	.1	.1	.0 .1	1	.1	.0	••	.3	
		PCP			-							.0	1.4	
	1/2<1	NO PCP	.2	.0	•1	.0	.0	.1	.3	1.3	.0	.0	2.9	
	1<2	PCP ND PCP	.3	.1	•1	.1	.0	.3	.5	.8	.0	.0	2.2	
		TOT %	.5							2.2	.0		3.0 5.3	
	2<5	NO PCP	1.3	.2	.2	.2	.1 .1	.5	1.0	3.1	.0	.0	3.4	
	5<10	PCP NO PCP	2.0	.6	1.7	1.5	. 8	1.9	4.0	5.1	.0	.0	15.2	
	3610	TOT >	6.3	1,3	2,3	1,8	3,6	6.2	11.4	16.5	.0	.3	34.5 49.8	

PCP .2 .1 * .0 .1 .1 .5 .7 .0 .0 1.8 10+ NG PCP 4.1 1.7 2.0 1.6 2.8 4.3 8.6 6.8 .0 1.0 32.9 TGT % 4.3 1.8 2.0 1.6 2.9 4.4 9.1 7.5 .0 1.0 34.7

TOT DUS TOT PCT 13.1 3.9 4.9 4.2 6.9 12.2 23.9 29.6 .0 1.3 100.0

(NM) <1/2 1/2<1	NTS 0-3 4-10 11-21 22+ TOT % 0-3 4-10 11-21 22+ TOT % 0-3 4-10 11-21	.0 * * .1 * .2 .1 .4 .7	.0	.0 .1 .0 .1 .0 .1	.0	.0	.0	.0	.1 .2 .3	.00	.0	* .2 .3 .4 .9	OBS
1/2<1	4-10 11-21 22+ TOT * 0-3 4-10 11-21 22+ TOT * 0-3 4-10	* * .1 * .2 .1 .4 .7 *	.0	.0 .1 .0 .1 .0 .1	.0	.0	.0	.0 .1 .2 .0 .1	.1 .2 .3	.0000		.9	
1/2<1	11-21 22+ TOT * 0-3 4-10 11-21 22+ TOT * 0-3 4-10	* .1 * .2 .1 .4 .7	.0	.1 .0 .1	.0	.00	.0	.0	.1 .2 .3	.0		.9	
	22+ TOT * 0-3 4-10 11-21 22+ TOT * 0-3 4-10	.1 .2 .1 .4 .7	.0	.0 .1 .0 .1	.0	.0	.0	.0	.2	:0		.7	
	TOT * 0-3 4-10 11-21 22+ TOT * 0-3 4-10	.1 .2 .1 .4 .7	•0	.1 .0 .1 *	.0	.0	.0	.0	.3	.0		.9	
	4-10 11-21 22+ TOT *	.2 .1 .4 .7	• • •	•1	.0	.0	.1	. 1			.0	.7	
	11-21 22+ TOT *	:1 :4 :7	• • •	.0	.0	.0	.1	. 1	. 2				
	22+ TOT * 0-3 4-10	:1 :4 :7	:	.0	.0		- 1						
1<2	22+ TOT * 0-3 4-10	.7	:					.2	.3	.0		. 8	
1<2	0-3 4-10	.7	•			*		. 3	. 8	.0		1.6	
1<2	4-10						.3	.3	1.3	.0	.0	3.1	
1<2				.0	.0	.0	.0	.0	.0	.0	.0		
	11-21		.0	*	.2	.1	.1	.1		.0		.5	
		.2	• 1	. 1		.0	. 2	.3	.1	.0		.9	
	455	.3	.0	.0		. 1	.1	.5	.9	.0		2.0	
	TOT #	-6	• 1	• 1	•2	• 2	. 3	.9	1.1	.0	.0	3.5	
	0-3	.0	.0	.0	.1		.1	.1	.1	.0		.4	
2<5	4-10	.2	.2	.2	.3		.2	.4	.4	.0		1.7	
	11-21	. 3	.2	• 1	• 1	.1	.4	.7	1.0	.0		3.0	
	224	.8	.2	.0		.1	.2	.6	1.8	.0		3.8	
	TOT %	1.4	.6	.3	.3	.2	.9	1.8	3.2	.0	•	8.9	
	0-3	.1	.1	.3	.1	.1		.1		.0	.3	1.1	
5<10	4-10	1.0	.4	• 7	.6	1.0	1.9	1.1	1.4	.0		8.2	
	11-21	2.3	.6	.8	.6	1.1	2.3	4.8	7.0	.0		19.4	
	22+	2.5	.2	.2	.3	1.1	1.6	4.7	6.9	.0	- 2	17.3	
	TOT %	5.8	1.3	2.0	1.6	3.2	5.8	10.7	15.3	.0	.3	46.0	
	0-3	.1	•1	.3	.2	.3	4	.2	.3	.0	. 9	2.8	
10+	4-10	1.1	.9	1.1	.6	1.4	1.5	2.7	1.8	.0		11.2	
	11-21	1.8	• 7	.5	.5	1.1	2.1	4.5	3.4	.0		14.5	
	55+	1.3	.2	.2	. 4	7	1.2	2.4	2.8	.0	-	9.1	
	TOT %	4.3	2.0	2.0	1.7	3.5	5.1	9.7	8.4	.0	.9	37.6	
	nt gas	12.9	4.0	4.6	4.0	7.2	12.5	23.9	29.7	.0		100.0	2193

PERIOD: (PRIMARY) 1898-1978 (OVER-ALL) 1854-1978

TABLE 10

AREA 0025 MAGELLAN STRAIT WEST

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	1.6	3.6	3.8	14.4	29.2	11.8	1.7	1.5	.2	.2	68.2	31.8	286
90300	.5	1.5	7.8	11.9	27.8	13.5	2.2	2.5	.0	.6	68.3	31.7	246
12615	1.0	1.1	7.9	12.9	24.8	15.1	8.3	.3	.0	.6	72.0	28.0	262
18821	1.3	1.8	3.0	16.2	28.1	11.5	5.8	1.9	.0	.6	70.2	29.8	296
TOT	1.2	2.1	4.9	14.0	27.5	12.8	4.4	1.7	.1	.6	69.3	30.7	1090

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(NM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00603	1.2	1.8	3.9	11.8	43.7	37.5	507	00803	1.6	9.7	32.4	37.1	30.5	279
06609	.4	2.9	3.2	7.4	50.7	35.3	633	06609	.9	11.5	27.7	42.9	29.4	240
12615	1.3	2.5	3.2	8.9	45.7	38.4	483	12615	1.0	10.9	30.9	43,3	25.9	258
18621	.9	4.2	3.7	8.8	45.0	37.4	666	18821	1.4	6.6	31.5	40.2	28.3	290
TOT PCT	.9	3.1	3.5	9.1	46.2	37.1	2289	TOT	1.3	9.1	30.9	40.3	28.9	1067

TABLE 13

			DE T	•			
ERCENT	FREQUENCY	OF	WIND	DIRECTION	BY	TEMP	

	PERC	ENT FR	EQUENC	Y OF R	ELATIVE	E HUMI	DITY B	Y TEMP				PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY T	EMP	
									TOTAL	PCT			- 20 (8)	7070-00						
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0			.1		.0	.0		.2		.1	.0	.1	.0		.0	.0	.0	
55/59	.0	.0	. 1	. 1	.3	.3	. 3	.1		1.2	.2	.1	.1		. 1		.3	.2	.0	.2
50/54	.0	.0	.2	.6	1.9	2.0	3,1	2.0		9.8	1.5	.5	.2	.1	.3	1.2	2.6	3.3	.0	.1
45/49	.0	.0		1.2	2.6	8.2	9.0	10.7		31.8	4.1	.7	1.3	1.1	1.3	3.4	7.7	11.6	.0	.6
40/44	.0	.0	.1	.2	3.8	9.3	13.5	12.0		38.9	5.3	1.7	1.8	1.4	2.1	4.3	10.3	11.4	.0	.5
35/39	.0	.0	.0	. 3	1.5	2.9	4.6	6,1		15.4	1.4	.5	1.6	1.0	1.7	3.0	3.8	2.1	.0	.4
30/34	.0	.0	.0	.0	.3	. 4	. 5	. 8		2.1	.1	.3	.2	. 2	.3	.7	.4	.1	.0	.0
25/29	.0	.0	• 0	.0		. 4	.0			.6	.0	.0	.0	.0	. 4	.1		.0	.0	.0
TOTAL						•			2093	100.0		• •	• •			• •			•••	••
PCT	.0	.0	.4	2.5	10.5	23,6	31.0	31.9	20.5		12.7	3.7	5.2	3.8	6.2	12.7	25.1	28.8	.0	1.8

TABLE 15

TABLE 16

	MEANS,	EXTREMES	AND	PERCEN	TILES	OF TE	P (DE	G F) 8	Y HQUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00603	63	52	49	43	37	34	27	43.2	3294
06609	60	50	48	43	36	33	25	42.4	6292
12615	62	51	49	43	36	34	25	42.8	3160
18821	61	52	49	43	37	34	20	43.3	10910
TOT	63	51	49	43	37	34	20	43.0	23656

				ACEIIC .	or week			B. 100	•
	OUR SMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00	203	.0	4.7	10.8	23.0	32.3	29.1	81	498
06	209	.0	1.3	9.0	23.4	30.0	36.4	84	592
12	615	.0	2.2	8.7	24.8	34.4	29.9	83	432
18	1621	.0	3.1	12.0	23.4	29.4	32.2	82	650
T	OT	0	61	234	513	683	681	82	2172

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ANNUAL

PERIODI	(PRIMARY)			AREA 0025 M	AGELLAN STRAIT WEST
	(DVER-ALL)	1854-1978	TABLE 17	53,	95 73.9W

	•								-						
PCT	FREQ	OF	AIR T	EMPER	ATURE VS AI	(DEG R-SEA	F) AN	D THE	OCCU E DIF	RRENCE FERENC	OF FOG	(WITHOU	T PREC	IPITATI	ON)
AIR-SEA	25	29 32	33	37	41	45	52	53 56	57	61	TOT	FDG	WD FDG		
	-				•										
11/13	.0	.0	.0	.0		.0	.0	.0	.2		5	.0	.2		
9/10	.0	.0			.0	.1	. 1	. 4	. 1	.1	14	.0	. 8		
7/8	.0	.0	.0	.0	.0	.1	. 2	.6		.1	22	.0	1.1		
6	.0	.0	.0	.0	.1		.6	. 5	.1	.1	25	.0	1.4		
5	.0	.0		.0	.1	.5	:6	.5	. 1	.0	37	.1	1.8		
4	.0	.0			. 2	1.4	1.2	. 4	.0	.0	66	.2	3.3		
3	.0	.0		.0	.6		1.3	.7	.0	.0	84	.2	4.2		
2	.0	.0		.3	2.1			.0	.0	.0	153	.4	8.3		
1	.0	.0	.1	.1	3,9	3.9	1.6	.2	.0	.0	183	1.2	8.7		
ō	.0	.0		.5	6.8	4.2	1.4	. 1	.0	.0	243	1.4	11.5		
-1	.0	.0		2.1	5.7	3.8		.1	.0	.0	236	1.3	11.4		
-2	.0	.0			5.4		.7		.0	.0	235	1.0	11.8		
-3	.0	.0			2.0	1.6	.4	.0	.0	.0	133	.7	6.4		
-4	.0	.0	.2	3.5	1.7	1.2		.0	.0	.0	121	.2	6.4		
-5	.0	.0		1.9	1.7	.9			.0	.0	102	.1	5.3		
-6	.0			1.7	. 8			.0	.0	.0	65	.3	3.3		
-7/-8	.1	. 5		1.3	1,4			.0	.0	.0	86	.4	4.4		
-9/-10		. 2			. 3		.0	.0	.0	.0	22	.2	.9		
-11/-13	.0	.1			.0			.0	.0	.0	13	.0	. 9		
-14/-10	.1				.0	:0	ŏ	.0	, o	.0	5	.0	.2		
TOTAL	•				••		•••	•	••		1850	••	-		
0		•						2 7		•	100 0	7 .	02.4		

PERIOD: (DVER-ALL) 1963-1978

HGT 1-3 4-10 11-21 22-33 34-47 484 PCT 1-3 4-10 11-21 22-35 34-47 486 PCT 1-3 4-10 11-					PC	T FREQ	OF MIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HELD	HTS (FT)		
\$\begin{array}{cccccccccccccccccccccccccccccccccccc													NE			
1-2	HGT		4-10	11-21				PCT								PCT
3-4 0 .2 .7 1.0 .0 .0 1.9 .0 .2 1 0 0 3.5 1 0 0 0 3.5 1 0	<1		1.2	.3	.0			1,9						,0		.5
3-4 0 .2 .7 1.0 .0 .0 1.9 .0 .2 1 0 0 3.5 1 0 0 0 3.5 1 0	1-2			1.5	.0			2,8			1.1			.0	.0	1.5
7		.0	.2	.7	1.0	.0	.0	1.9		.0	.2		.1	.0	.0	.3
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	5-6		.2	2.4				3,2		.0	.0			.0	.0	•
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0			.0	.1		.2	.0	.7		.0	.0			.0	.0	.0
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		.0	.0	.3	.4	.0	.0	.7		.0	.0		.1	.0	.0	. 1
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	10-11	.0	.0	.0	1.1	.2	.0	1,3		.0	.0	.0	.0	.0	.0	.0
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	12	.0	.0	.0		.2	.0	.2		.0	.0		.0	.0	.0	.0
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	13-16	.0	.0	.0	.0	1.3	.0	1,3		.0	.0	.0	.0	.5	.0	.5
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	20-22	.0	.0	.0		.0	.0	.1		.0	.0	.0	.0	.0	.0	.0
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	23-25	.0	.0	.0		.0	.0	.0		.0	.0	.0		.0	.0	.0
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	26-32		.0	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0	.0
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	33-40	.0	.0	.0		.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	41-48	.0		.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	49-60		.0	. 7				.0		.0	.0			.0	.0	. 7
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	71-86	.0	.0	-0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
HGT 1-3 4-10 11-21 27-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 .9 .0 .1 .0 .0 .0 1.0 .2 .2 .0 .0 .0 .0 .4 1-2 .0 .9 .1 .0 .0 .0 1.5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .4 1-2 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .3 .0 .1 .5 .0 .1 .0 .0 .0 .0 .0 .1 .5 .6 .0 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
HGT 1-3 4-10 11-21	TOT PCT	.4	2.9	5.4	3.6	2.0	.0	14.2		.0	1.8	.5	.1	.5	.0	2.9
41 9 0 1 0 0 0 1,0 .2 .2 0 .0 .0 .0 .0 1-2 0 .9 1 0 .0 1,0 .2 .2 * .0 .0 .0 .4 3-4 0 .0 1,5 .0 .0 .1 .0 <td></td>																
41 9 0 1 0 0 0 1,0 .2 .2 0 .0 .0 .0 .0 1-2 0 .9 1 0 .0 1,0 .2 .2 * .0 .0 .0 .4 3-4 0 .0 1,5 .0 .0 .1 .0 <td></td>																
41 9 0 1 0 0 0 1,0 2 2 0 0 0 0 0 1-2 0 9 1 0 0 0 1,0 2 2 0 0 0 0 0 3-4 0 0 1 0 0 0 1 0 0 0 0 0 5-6 0 2 1 0 0 0 3 0 0 0 0 0 0 1 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 8-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10-11 0<			4-10	11-21	27-33			PCT		1-3	4-10		22-33	34-47	48+	PCT
3-4 0 0 11.5 0 0 0 1.5 0 0 1 0 0 0 1 0 0 0 0 1 0 1 5 0 0 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 0		.9	.0	- 1	-0	.0	.0	1.0			.2		.0	.0	.0	.4
3-4 0 0 11.5 0 0 0 1.5 0 0 1 0 0 0 1 0 0 0 0 1 0 1 5 0 0 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 0		.0	. 9	-1	.0	.0	.0	1.0		.2	.2		.0	.0	.0	.4
5-6 0 2 1 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3-4	.0	.0	1.5	.0	.0	.0	1.5			.1	.0	.0	.0	.0	. 1
7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5-6	.0	.2	.1	.0	.0	.0	. 3			.0			.0	.0	.1
8-9	7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11 0 0 0 10 11 0 0 0 11 0 0 0 0 1 0	8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	
12	10-11	.0	.0	.0	.1	.0	.0	.1		.0	.0	.0		.2	.0	.2
13-16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
17-19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13-16	.0	.0	-0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17-19	.0	.0	-0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
29-25	20-22	.0	.0	-0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-92 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23-25	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
33-40	26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0	.0
49-60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	41-48	.0		.0	.0	.0		.0		.0	.0	.0		.0	.0	.0
61-70 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	61-70			.0	-0	.0		.0		.0	.0	.0		.0	.0	.0
874 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	71-86		.0	• 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	-0	. 0
	874	.0	.0		.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
707 967 .9 1.1 1.9 .1 .0 .0 3.9 .4 .5 .1 .1 .2 .0 1.2	TOT PCT	. 9	1.1	1.9	.1	.0	.0	3.9			.5	.1	.1	.2	.0	1.2

PERIOD: (OVER-ALL)	1942-1998	ANNUAL	AREA 0025 MAGELLAN STRAIT WEST
PERTON. TOVER-ACC.	1,03-141	TABLE 18 (CUNT)	53.95 73.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT				5	34-47		PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1-3	4-10	11-21	27-33	.0	48+	1.0	.2	10	11-21	.0	.0	.0	.8	
1-2		1.5	.1	.0	.0	.0		.1	1.8	.4	.0	.0	.0	2.3	
3-4	.0	1.0	.1	.0	.0	.0	1.6	.0	***	1.0	.3	:0	.0	1.3	
5-6	.0	.0	.1	.0	.0		:7	.0	.3	2.2	1.4		.0	3.9	
7	.0	.0	.6	• 1	.0	.0	. 3	.0	.0	.4	1.3	.0	.0	3.7	
8-9	.0	:0	. 1	.2	:0	.0		.2	.2	.6	:4	• •	.0	1.4	
10-11	.0	:0	.1	• 1	.0	.0	:1	.0	.0	.0	.2	.1	.0	.4	
12	.0	:0	.0	.4	.0	.0	:0	.0	:0	.0	:1	• 0	.0	.1	
13-16	.0	.0	.0	.2	.2	.0	• 4	.0	.0	.0	.0	0000	.0	.0	
17-19	.0	.0			.0		.0	.0	.0	.0	.0	• 0	.0		
20-22	.0	:0	.0		.0	.0	:0	.0	.0	.0	:0	• 0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	• 0	.0	:0	.0	:1	• 0	.0	.1	
26-32		.0	.0	.0	.0		.0	.0	.0	.0		.0	.0		
33-40	.0	.0	.0	.0		.0	.0	:0	.0	.0	.0	.0	.0	.0	
41-48	.0		. ?	.0	.0	.0	.0	.0	.0	.0	.0	• •	.0		
	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	
61-70	.0	.0	• • • •	.0	.0	.0	.0	•0	.0		.0	.0		.0	
71-86	.0	.0	• ?	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.5	.0	4.6	.0	.0	.0	.0	
TOT PCT	.0	2.4	1.1	1.0	.2	.0	4.7	.,	2.9	4.0	2.7	.,	.0	10.9	
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	. 8	.0	.0	.0	.0	1.1	.1	. 8	.2	.0	.0	.0	1.1	
1-2	.1	3.1	1.7	.0	.0	.0	4.9		1.9	2.8	.0	.0	.0	4.8	
3-4	.0	. 8	1.4	.7	.0	.0	2.9	.0	1.3	2.4	.6	.0	.0	4.3	
5-6	.0	.0	2.8	1.8	.1	.0	4.6	.0	. 4	3.6	3.2	.1	.0	7.2	
7	.0	.1	3.0	. 8	.2	.0	4.1	.0	. 3	1.0	3.1	. 7	.0	5.1	
8-9	.0	.0	.1	1.9	.6	.0	2.6	.0	.0		. 8	. 6	.0	1.4	
10-11	.0	.0	. 5	1.2	.4	.0	2.0	.0	.0	.5	1.6		.2	2.7	
12	.0	.0	. 1	.9	.9	.0	1.8	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.7	1.3	1.1	.0	3.1	.0	.0	.0	.9	1.0	.0	2.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	. 3	.0	.2	.0	. 6	.0	.0	.1		. 2	.0	.3	
23-25	.0	. 0	.5	.2	.6	.0	1,3	.0	.0	.0	.2	.6	.0	.9	
26-32	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0000	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	4.8	11.0	8.9	4.2	.0	29.2	.1	4.7	10.7	10.9	4.3	.2	30.9	98.0
	• •	4.0	-1.0	0.7				**			-017				

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	4.5	4.8	.7	.0	.0	.0	10.0	203
1-2	.6	11.9	7.0	.0		.0	19.6	
3-4	.0	2,5	7.1	2.6		.0	12.3	
5-6	.0	1.0	11.7	7.0		.0	19.9	
7	.0	. 4	4.6	4.9			10.9	
8-9	. 2	. 2	1.1	3,6		.0	6.4	
10-11	.0	.0	1.0	4.5	1.4	.2	7.1	
12	.0	.0	.0	1.5		.0	2.6	
13-16	.0	.0	.7	2.3		.0	7.9	
17-19	.0	.0	. 0	.0		.0	.2	
20-22	.0	.0	.4	.1	.4	.0	. 9	
23-25	.0	.0	. 5	. 5		.0	2.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0		.0	.0	
41-48	.0	.0	.0	.0		.0	.0	
49-60	.0	.0	.0	.0		.0	.0	
61-70	.0	.0	.0	.0		.0	.0	
71-86	.0	.0	.0	.0		.0	ŏ	
87+	.0	.0	.0	.0		.0	.0	
0/4			.0	•0			.0	554
TOT PCT	5.3	20.9	34.9	27.1	11.6	.2	100.0	224

PERIOD	: (DV	ER-ALL)	195	2-197	,				TABLE	19											
					PERCEN	T FRE	QUENCY	OF WA	VE HE !	GHT (F	T) VS	WAVE P	ERIOD	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
6-7	2.5	8.2	6.8	2.5	2.9	1.3		1.5	1.4	1.0	.0			.0	.0	.0	.0	.0	.0	293	5
6-7 8-9	.0	.3	.7	.6	2.2	4.5	2.6	2.1	3.5	1.1	.3	.9	.1	.0	.0	.0	.0	.0	.0	169	11
10-11	.0	.6	.3	.3	.8	2.7		.6	3.2	2.3	1.2			.0	.0	.0	.0	.0	.0	117	12
>13 INDET	6.7	1.8	.0	.2	.1	.3	.1	.0		1.1		.0	.0	.0	.0	.0	.0	.0	.0	28	14
TOTAL		1.0		.4		••		• • •	•••	• • •	••	.0	.0	.0	•0	•0	.0	•0	.0	898	8
PCT	9.2	11.4	12.0	9.1	8.8	11.9	9.8	5.9	10.4	6.1	3.1	2.2	. 2	.0	.0	.0	.0	.0	.0	100.0	

LI	1854-19	178					TABL	E 20						53.9	73.96
				PERCEN	T FRE	QUENCY	OF 00	CURREN	CE OF	SEA T	EMP (DEG	F) 8	-		
	A TMP EG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
	96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	5/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	3/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	1/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	9/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
8	7/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
8	5/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	3/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	1/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	9/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	7/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	5/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	3/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	1/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	9/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	7/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
6	5/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
6	3/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
6	1/62	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	
	9/60	. 1	. 1	- 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	
	7/58	. 2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 2	8	*
	5/56	.4	. 2		.1	.0	.0	.0	.0	.0	.0	.1	.1	22	•1
	3/54	1.9	1.9	1.2	. 4	.0	. 1	. 1	.0	.0	.0	.0	.3	108	.5
	1/52	7.0	10.2	7.9	2.2	.9	.1	.0	•0	.2	.0	.2	. 4	530	2.3
	9/50	16.3	19.7	20.0	10.4	4.0	2.0	.7		.2	.5	. 8	6.6	1474	6.5
	7/48	19.9	21.0		20.3	11.8	5.9	3.1	.8	.9	2.6	7.3	13.8	2359	10.3
	5/46	33.7	31.4	25.9	25.7	23.2	18.6	17.3	11.4	11.1		23.1	29.3	5060	22.2
	3/44	17.7	14.8		25.1	27.8	20.3	16.7	16.3	21.2		24.9	32.1	4961	21.8
	1/42	2.7	.7		13.8	23.7	29.9	29.9	31.5	33.3		34.6	15.5	4976	21.8
3	9/40	.1	.1	.2	1.1	6.7	17.7	24.8	31.1	25.7	15.2	7.8	1.3	2601	11.4
3	7/38	.0	.0	.1	. 6	1.7	3.1	5.4	6.5	6.4	1.7	.9	.3	525	2.3
3	5/36	.1	.0	.1	. 4	.2	. 8	1.4	1.5	.7	.3	.1		109	.5
3	3/34	.0	.0	.0	.1	.0	. 8	.3	.5	. 1	.5	.1	.0	44	.2
3	1/32	.0	.0	.0	.0	.0	.5	.1	.2	.0	.1		.0	16	.1
2	9/30	.0	.0	.0	.0	.0	.1	.2		.0		.0	.0	6	
	7/28	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	4	
	<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	DTAL	1956	1852	1712	1613	1594	1447	1875	2286	2034	2064	2230	2143	22806	100.0
	MEAN	46.7	47.2	46.8	45.3	43.8	42.5	41.8	41.2	41.6	42.4	43.2	44.7	43.9	The second second

TABLE 21 PRESSURE (MB)

			AV	ERAGE	BY HOU	R (GMT)				
										TOTAL	
MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	DBS	
JAN	1000	1000	998	998	999	997	998	998	998	1003	
FEB	999	1001	998	999	998	1002	999	999	999	949	
MAR	1002	1004	1002	1001	1002	1011	997	1001	1000	824	
APR	1004	1005	1003	1002	1004	1002	1003	1004	1003	896	
MAY	1001		1001	1002	1001		999	999	1000	798	
JUN	1002		1001	1002	1002		1002	1003	1002	813	
JUL	999	1001	999	1001	1000	999	1000	1000	1000	1055	
AUG	1001	999	1001	1001	1002	1002	1003	1000	1002	1191	
SEP	1004	998	1002	1002	1004	1002	1004	1005	1004	1147	
DCT	1005	1006	1005	1004	1004	1010	1001	1006	1003	1156	
NOV	999	1004	998	997	998	1000	997	998	997	1369	
DEC	999	1006	999	998	997	1002	997	998	998	1224	
ANN	1001	1002	1001	1001	1001	1003	1000	1001	1000	12425	
200	1610	54	1628	1255	1550	50	4025	1242			

PERCENTILES

MO MIN 1% 5% 25% 50% 75% 95% 99% MAX

JAN 965 975 982 991 997 1006 1016 1018 1024

FEB 965 975 981 991 998 1008 1017 1022 1024

MAR 964 972 970 993 999 1008 1000 1024 1029

APR 966 977 983 994 1005 1011 1020 1024 1028

MAY 963 967 978 991 1002 1019 1020 1025 1030

JUN 966 972 978 994 1003 1010 1023 1029 1032

JUL 964 973 978 991 1001 1010 1019 1026 1035

AUG 964 972 980 992 1001 1012 1024 1029 1032

SEP 957 970 992 993 1003 1014 1026 1028 1033

BCT 961 973 982 994 1004 1013 1024 1029 1031

NGV 964 970 979 990 997 1005 1017 1022 1027

NGV 964 970 979 990 997 1004 1013 1024 1029 1032

TABLE 1

AREA 0026 GULF OF PEILAS 47.05 76.2W

PERCENT	EDECHENCY	DE	WEATHER	OCCURRENCE	RV	WIND	DIRECTION

			P	RECIPI	DITAT	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	20.8	7.4	10.2	.0	.0	.0	.0	37.5	12.0	.0	1.9	.0	.0	.0	48.6
NE	22.9	11.4	2.9	.0	.0	.0	.0	37.1	11.4	.0	.0	.0	.0	.0	51.4
E	.0	.0	50.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
SE	22.2	.0	.0	.0	.0	.0	.0	22.2	.0	.0	22.2	.0	.0	.0	55.6
S	.0	.0	7.5	.0	.0	.0	.0	7.5	17.2	.0	4.3	.0	4.3	.0	66.7
SW	2.6	.0	6.8	.0	.0	.0	.0	9.4	5.8	.0	4.2	.0	6.3		74.3
W	10.7	3.0	. 8	.0	.0	.0	.0	14.6	17.4	.0	1.1	.0	1.1	.0	65.8
NW	12.7	5.8	5.1	.0	.0	.0	.0	22.2	12.0	. 9	5.6	.0	.0	.0	59.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	14.3	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0		85.7
TOT PCT	11.3	4.0	5.5	.0	.0	•0	.0	20.2	12.4	.3	3.5	•0	1.4	.0	62.1

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		ND SIG WEA
00603 06609 12615 18621	15.5 5.9 8.3 15.5	3.1 5.9 3.6 3.6	7.2 2.4 6.0 6.0	.0	.0	.0	.0	25.8 14.1 17.9 22.6	10.3 11.8 9.5 17.9	1.2	5.2 4.7 2.4 1.2	.0	1.2	.0	56.7 67.1 69.0 57.1
TOT PCT	11.4	4.0	5.4	.0	•0	•0	.0	20.3	12.3	.3	3.4	.0	1.4	.0	62.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

				ED (KN										(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N NE	.3	2.4	3.3	2.1	•6	.0		8.7	17.4	8.1	15.9	9.4	6.5	8.1	15.9	10.9	6.4
E	.2	.5	.1		.0	.0		. 8	7.7	.9	9.1	.7	1.1	1.2	.0	.5	. 2
SE	. 2	.7	.9	.2	.1	.0		2.1	13.2	2.5	.0	2.3	2,2	2,5	.0	1.3	2.3
5	1.0	3.9	4.0	1.0	• 1			10.1	12.4	10.8	.0	10.0	9.4	12.2	.0	8.5	11.5
SW	.6	8.1	7.7	3.4	.6	. 2		20.6	14.9	21.3	9.1	21.9	25.3	22.7	11.4	15.6	22.3
W	1.2	8.3	10.6	5.5	1.3			26.9	15.8	24.3	15.9	28.2	29.2	25.5	22.7	29.2	23.5
NW	. 8	6.8	10.7	8.0	1.7	.3		28,3	18.0	30.2	50.0	25.3	24.0	24.5	40.9	31.0	31.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0	1.0	.0	1.1	.3	1.8	.0	1.4	. 3
TOT UBS	136	756	922	495	112	16	2437		15.7	388	11	379	306	384	11	647	311
TOT PCT	5.6	31.0	37.8	20.3	4.6	.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.5

TABLE 3A

WND DIR	0-6	WIND 7-16	SPEED 17-27	(KNOTS)- 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00		12 15	18 21
N	1.4	3.0	2,9	1.1	.2		8.7	17.4	8.3	8.1	8.4	9.4
NE	.6	.6	. 2	.1			1.4	10.4	.9	1.5	1.6	1.6
	.5	.2			.0		.8	7.7	1.1	.8	1.2	.4'
SE	.5	1.0	.4	.1	.0		2.1	13.2	2.4	2.3	2.4	1.6
5	2.3	4.8	2,5	.3	.1		10.1	12.4	10.5	9.7	11.8	9.4
SW	3.0	10.3	5,2	1.6	.6		20.6	14.9	21.0	23.4	22.4	17.7
W	3.8	11.4	8.4	2.7	.5		26.9	15.8	24.1	28.6	25.4	27.4
NW	3.0	10.3	10.2	4.2	.7		28.3	18.0	30.8	24.7	25.0	31.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	1.0	.7	1.8	1.0
TOT OBS	393	1014	731	246	53	2437		15.7	399	685	395	958
	14 1	41 4	20 0	10 1	2 2	100	100 0	200 0 0	100.0	100 0	100 0	100 0

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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)
HUIR CALM 1-3 4-10 11-21 22-33 34-47 48+ MEAN FREQ OBS

00,03 1.0 4.5 33,6 37.8 19,3 3.3 .5 15.0 100.0 399
06,04 .7 4.2 32,7 38.0 19,9 3.9 .0 15.4 100.0 685
12,15 18 6.1 27,3 4.18 19,2 3.3 .5 15.1 100.0 395
18,21 1.0 4.1 30,3 36.1 21.5 6.2 .8 16.4 100.0 958
TUT 26 110 736 922 495 112 10 15.7 2437
PCT 11 4.5 31.0 37.8 20,3 4.0 .7 100.0

TARLE 5

0 0

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1865-1977

P	CT FRE			LUUD A		(EIGHTHS)							CEILIN NH <5/					
WND DIR	0=2	3-4	5-7	8 & B	OBS		149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	DBS
N	.8	2.0	2.4	10.8		6.7	.7	.3	1.7	1.9	5.0	2.4	.3	.0	.0	.3	3.7	
NE	.3	.4	.2			6.2	.0	.3	.3	. 3	.4	.0	. 1	.0	.0	.1	. 9	
E	.0	.0	.3	.3		7.5	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.1	1.0		7.9	.0	.0	.0	.3	.3	.1	.0	.0	.0	.0	.3	
S	. 8	.3	2.4	2.6		6.2	.0	.3	.7	. 3	1.1	.6	.0	.0	.0	.0	3.1	
SW	.5	1.4	4.4	7.7		6.8	.3	.4	.7	1.2	3.6	3.4	.3	.3	.0	.3	3.4	
W	.0	1.0	8.4	15.7		7.2	.3	. 8	3.4	8.4	4.0	1.9	2.3	.3	.0	.3	3.6	
NW	. 8	1.9	10.1	18.8		6.9	. 8	1.2	2.4	7.3	6.5	7.9	1.1	.0	.0	.0	4.5	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	1.3	1.0		6.8	.0	.0	1.0	.0	. 3	.3	.0	.0	.0	.0	.7	
TOT OBS	10	21	88	178	297		6	11	30	60	64	49	12	2	0	3	60	297
TOT PCT	3.4	7.1	29.6	59.9	100.0		2.0	3.7	10.1	20.2	21.5	16.5	4.0	.7	.0	1.0	20.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CELLING HEIGHT (NH 24/8) AND VSRV (NH)

					VSBY (NM)			
C	FILING	• OR	• DR	- DR	= DR	- OR	• DR	• OR	= OR
	FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
nR	>6500	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TR	>5000	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
DK	>3500	4.7	5.4	5.8	5.8	5.8	5.8	5.8	5.8
OK	>2000	13.9	20.7	21.7	21.7	21.7	21.7	21.7	21.7
	>1000	26.1	39.0	42.4	42.7	43.1	43.4	43.4	43.4
OR	>600	37.6	55.9	62.7	63.4	63.7	64.1	64.1	64.1
	>300	42.0	62.4	71.9	73.2	73.9	74.2	74.2	74.2
	>150	43.1	64.4	74.2	75.9	76.9	77.3	77.6	77.6
	> 0	43.4	64.7	74.9	70.6	78.3	79.0	79.3	79.3
	TOTAL	128	191	221	226	231	233	234	234
TO	TAL NUMB		51 29			CT FREQ	NH 45/81	20.7	

TABLE 7A
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 OBSCO TOTAL OBS 2.2 2.2 3.2 5.4 7.6 7.3 8.3 10.8 51.0 1.9 314

		0	Y

PERIOD: (PRIMARY) 1907-1977		AREA 0026 GULF OF PEILAS
(DVER-ALL) 1865-1977	TABLE 8	47.05 76.2W

		P	PERCENT		LP LTAT	DIRE	CTIUN TH VAR	VS DCC	URRENCE ALUES	F VIS	IBILI'	URRENC	€ DF
VSBY		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
	PCP	.3	.0	.0	.0	.2	.1	.0	.0	.0	.0	.6	
<1/2	ND PCP	.0	.0	.0	.0	.3	.0	. 6	. 3	.0	.0	1.2	
	TOT \$. 3	.0	.0	.0	.5	. 1	.6	. 3	.0	.0	1.8	
	PCP	.6	.0	. 3	.0	.0	.0	.0	.0	.0	.0	.9	
1/2<1		.3	.0	.0	.0	.0	.0	.0	.6	.0	.0	.9	
	TOT \$.9	.0	. 3	.0	.0	.0	.0	.6	.0	.0	1.8	
	PCP	.7	.6	.0	.0	.0	.3	.0	.1	.0	.0	1.8	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	.6	.0	.0	.0	.3	.0	•1	.0	.0	1.8	
	PCP	1.2	.0	.0	.0	.0	.4	1.6	2.3	.0	.3	5.9	
2<5	NO PCP	.7	.0	.0	.0	. 3	. 3	.6	1.3	.0	.0	3.2	
	TOT *	2.0	.0	.0	.0	. 3	.7	2.2	3.7	.0	.3	9.1	
	PCP	1.7	.4	.0	. 3	.0	.0	. 8	3.0	.0	.0	6.2	
5<10	NO PCP	2.3	.8	.0	.6	.6	1.9	2.6	8.5	.0	.3	17.6	
	TOT \$	4.0	1.2	.0	. 9	.6	1.9	3,4	11.5	.0	.3	23.8	
	PCP	1.1	.0	.0	.0	.3	.3	1.5	1.0	.0	.0	4.1	
10+	NO PCP	6.5	. 8	. 3	. 4	5.1	10.4	18.8	13.9	.0	1.5	57.8	
	TOT *	7.6	. 8	. 3	.4	5.4	10.7	20.2	14.9	.0	1.5	61.9	
	TOT 985												341
	TOT PCT	15.5	2.6	.6	1.3	6.8	13.6	26.4	31.1	.0	2.1	100.0	

TABLE 9

VSBY	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
(NM)	KTS												OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	11-21	.0	.0	.0	.0	.3	.0	. 3	.0	.0		.6	
	22+	.3	.0	.0	.0	.2	.1	.0	.0	.0		.6	
	TOT %	.3	.0	• 0	.0	.5	.1	.6	.3	.0	.0	1.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.3	.0	.0	.0	.0	.0	.0	. 3	.0		.6	
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	.3	.0	. 3	.0	.0	.0	.0	.3	.0		.9	
	TOT %	. 9	•0	.3	• 0	.0	.0	.0	.6	.0	.0	1.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.3	.0	.0	.0	.0	.3	.0	.0	.0		.6	
	11-21	.1	.6	.0	.0	.0	.0	.0	.1	.0		. 9	
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.7	.6	•0	•0	.0	.3	.0	-1	.0	.0	1.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
2<5	4-10	.5	.0	.0	.0	.0	.0	.2	.7	.0		1.4	
	11-21	.3	.0	.0	.0	.3	.6	. 8	1.4	.0		3.4	
	22+	1.1	.0	.0	.0	.0	.0	1.1	1.4	.0		3.7	
	TOT %	1.9	•0	•0	.0	.3	.6	2.1	3.6	.0	.3	8.8	
	0-3	.0	.0	.3	.3	.0	.0	.0	.0	.0	.3	.9	
5<10	4-10	.8	.1	.0	.3	.0	1.1	.9	2.6	.0		5.7	
	11-21	2.6	1.1	.0	.3	.6	.6	1.6	4.5	.0		11.1	
	22+	1.4	.1	.0	.0	.0	.3	1.3	4.3	.0		7.4	
	TOT \$	4.8	1.3	.3	.9	.6	2.0	3.7	11.3	.0	.3	25.1	
	0-3	.3	.0	.0	.1	.2	.0	.9	.0	.0	1.4	2.8	
10+	4-10	2.6	.4	.3	.4	1.9	4.7	5.9	3.1	.0		19.4	
	11-21	3.5	.1	.0	.0	2.8	6.2	9.5	9.5	.0		31.6	
	22+	1.0	.3	.0	.0	.3	.1	3.0	1.9	.0		7.1	
	TOT \$	7.4	.8	.3	.4	5.3	11.0	19.9	14.5	.0	1.4	61.0	
	OT ORS										4		351
7	OT PET	16.0	2.6	.9	1.3	6.6	14.0	26.4	30.3	.0	2.0	100.0	

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PERIOD: (PRIMARY) 1907-1977 (QVER-ALL) 1865-1977

TABLE 10

AREA 0026 GULF OF PETLAS 47.05 76.2W

PERCENT FREQUENCY OF CELLING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

									-				
HOUR (GMT)	149	150 299	300 599	999	1999		3500 4999	5000 6499	6500 7999	6000+	TOTAL	NH <5/8	TOTAL
00603	•0	4.7	10.6	20.0	18.8	15.3	7.1	2.4	.0	1.2	80.0	20.0	85
90300	2.9	4.4	7.4	23.5	14.7	13.2	4.4	.0	.0	2.9	73.5	26.5	68
12615	3.9	2.6	9.2	21.1	27.6	17.1	1.3	.0	.0	.0	82.9	17.1	76
18621	1.3	2.7	12.0	17.3	22.7	18.7	2.7	.0	.0	.0	77.3	22.7	75
TOT PCT	2.0	3.6	9.9	20.4	21.1	16.1	3.9	.7	.0	1,0	239 78.6	65 21.4	304 100.0

TABLE 11

ADIE 12

		PERCENT	FREQUE	NCY VSBY	(NM)	BY HOUR		CUMULAT	TVE PCT	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	3 - 1	3.1	3.1	9.3	20.0	8.00	97	00603	.0	18.1	39.8	39.8	20.5	83
06409	.0	1.1	.0	10.3	29.9	58.6	87	06809	2.9	14.7	41.2	32,4	26.5	68
12615	2.4	2.4	2.4	5.9	23,5	63.5	85	12615	4.0	16.0	44.0	40.0	16.0	75
18621	1.2	.0	1.2	11.6	25.6	60.5	86	18821	.0	14.5	36.2	43,5	20.3	69
TaT PCT	1.7	1.7	1.7	9.3	88	216	355 100.0	TOT	1.7	47	119	115	61	295

TABLE 1

	PERCI	ENT FR	EQUENCY	0 F R	ELATIVE	HUMI	DITY B	Y TEMP		
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
65/69	.0	.0	.4	.0	.8	.4	.0	.0	4	1.5
60/64	.0	.0	.0	.0	.0	1.9	1.9	1.5	14	5.3
55/59	.0	.0	.0	. 8	5.3	16.2	10.9	8.7	111	41.9
50/54	.0	.0	.0	.4	4.9	10.9	15.1	11.7	114	43.0
45/49	.0	.0	.0	1.1	.4	3.0	1.1	2,3	21	7.9
40/44	.0	.0	.0	.0	.0	.0		. 4	i	.4
TOTAL	0	0	1	6	30	86	77	65	265	
PCT	.0	.0	.4	2.3	11.3	32,5	29.1	24,5		

TABLE 14

	PERCENT	FRE	QUENCY	QF W	IND DI	RECTIO	N BY TE	EMP	
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.0	.0	•0	.4	.4	.0	.5	.0	•0
2.0	. 3	:0	.0	.0	. 8	1.3	. 8	.0	.0
5.1	. 8	.4	.5	4.4	6.2	12.2	11.5	.0	. 8
6.3	1.1	.4	.0	1.0	5.3	12.1	15.7	.0	1.1
.7	.5	.0	.0	.7	. 5	3.8	1.5	.0	
.0	.0	.0	.0	. 3	. 1	.0	.0	.0	.0
4.3	2.7	. 8	. 5	6.8	13.3	29.3	30.0	- 0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR HOUR MAX 99% 95% 50% 5% 1% MIN HEAN TOTAL OBS. 100003 66 61 59 53 47 46 42 53.1 398 60609 62 60 58 52 46 44 41 51.4 685 12215 65 62 59 53 47 46 43 53.0 387 18215 65 62 59 53 47 46 43 53.0 387 18215 69 64 60 54 48 46 42 53.9 878 TOT 69 62 59 53 47 45 41 53.0 2348

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	.0	1.4	11.6	30.4	27.5	29.0	82	69
00609	.0	.0	9.1	25.8	36.4	28.8	83	66
12615	.0	4.3	10.1	30.4	29.0	26.1	81	69
18821	.0	4.9	14.8	44.3	23.0	13.1	78	61
TOT	0	7	30	86	77	65	81	265

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PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1865-1977

TABLE 17

AREA 0026 GULF OF PEILAS 47.0\$ 76.2W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

					• • •						
AIR-SEA	45	49 52	53	57	61	65	69	TOT	FOG	WD	
THP DIF	48	52	56	60	64	68	72		FOG	FOG	
11/13	.0	.0	. 3	.3	.0	:0	.0	2 2	.0	.6	
9/10	.0	. 0	. 0	.0	.0	.0	.0	2	.0	.6	
7/8	.0	.0	.0	.0	. 6	1.0	.0	6	.0	1.9	
6	.0	.0	.0	.6	. 3	.0	.0	3 7	.0	1.0	
5	.0	.0	. 6	1.0	. 6	.0	.0	7	.0	2.2	
	.0	. 3	1.6	3.8	.0	.0	.0	18	.0	1.9 1.0 2.2 5.8	
3	.0	.6	1.6	1.6	.6.0	.0	.0	15	0000000	4.8	
2	.0	1.0	4.2	4.8	. 6	.0	.0	33	.6	4.6 9.9 12.2 19.2 9.3 9.6 5.4 5.1 4.5 2.6	
ī	.0	3.2	5.4	3.5	. 3	.0	.0	39	. 3	12.2	
0 -1 -2 -3	.0	3.2	13.1	3.6	. 3	0	.0	65	1.6	19.2	
-1	.3	1.9	5.4	1.9	. 0	.0	.0	30	. 3	9.3	
- 5	.6	2.9	6.4		. 0	. 0	.0	31	, 3	9.6	
-2	. 3	1.6	3.5	. 3	. 0	.0	.0	18	. 3	5.4	
-4	.3	3.5	1.3	.0	. 0	.0	.0	17	.3	5.1	
-5	1.0	1.9	1.3		.0	.0	.0	14	.0	4.5	
-6	1.0	1.7	1.3	.,	.0	.0			.0	3.6	
-0	1.0	.0	1.3	.0	.0	.0	.0	8	• 0	2.0	
-7/-8	.0	.6	.3	.0	.0	.0	.0	•	.0	1.0	
-11/-13	.0	. 3	.0	.0	11	.0	.0	1	.0 .0 12		
TOTAL	13		147		11		1	-	12	300	
		66		71 22.8		1.0		312			
PCT	4.2	21.2	47.1	22.8	3.5	1.0	.3	100.0	3.8	96,2	

PERIOD: (DVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA NEIGHTS (FT) MG7									. Hote 10						
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-67 48+ PCT 1-3 4-10 11-					PC	T FREQ C	F WIND	SPEED	(KTS) AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)		
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-67 48+ PCT 1-3 4-10 11-					N							NE			
\$\frac{1}{1-2}\$	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			11-21	22-33	34-47	48+	PCT
1-2		.0	3.4	.0	.0	.0	.0	3.4			.0	.0	.0		. 3
3-4			.0	2.5	.0		.0	2,5		.0			.0	.0	2.0
5-6			.7	4.2	.5	.0	.0	5.4		.0	. 8	.2	.0	.0	1.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		.0	.0	2.6		.0	.0	3,1		.0			.0	.0	.2
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7	.0	.0	.0	2.3	.0	.0	2,3		.0	.0	.2	.0		.2
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		.0	.0	.0	.7	.0	.0	.7		.0	.0	.0	.0	.0	.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10-11	.0	.0		.5	.0	.0	- 5	.0	.0			.0	.0	.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12	.0						.0	.0	.0			.0	.0	.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		.0		.0		.0		.7	.0	.0			.0	.0	.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20-22	.0	.0					.0	.0	.0			.0		.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26-32	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0	.0	.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			.0	.0	• 0			.0		.0			.0	.0	.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		.0	.0	.0		.0	.0	.0	.0	.0			.0	.0	.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	49-60		.0	.0		.0		.0		.0			.0	.0	.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	61-70	.0	.0			.0		.0		.0			.0		.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	71-86		.0	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	87+		.0	.0		.0		.0		.0		.0	.0	.0	.0
41 0	TOT PCT	.0	4.1	9.3	5.1	.0	.0	18.5	.0	.3	2.9	.3	.0	.0	3.6
41 0															
41 0	ucz	1-2	4-10	11-21	E	24-47	44.	0.7	1-1	4-10	11-21	32-33	24-47	404	DOT
1-2			4-10	11-21	22-33				1.7	4-10		22033			7
3-4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			. 7	•	.0			.,		.0			• 0		• •
5-6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		.0	.0	• 0				• 7	.0	.0			.0	.0	.0
7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			.0					.0		.0			.0	-0	.0
8-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		.0	. 0					.0		.0			.0	.0	.0
10-11	8-9	.0	.0					.0	.0	.0			.0	-0	.0
13-16 00 00 00 00 00 00 00 00 00 00 00 00 00		. 0	. 0					. 0	.0	.0			.0	-0	.0
13-16	12	.0	.0					.0	.0	. 0			. 0	-0	.0
17-19	13-16	.0		.0				.0	.0	.0			.0	.0	.0
20-22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17-19	-0	. 0					.0	.0	.0			.0		-0
23-25	20-22	. 0	. 0			. 0		. 0	.0	.0			.0	-0	.0
26-32	23-25	.0	.0			-0		.0	.0	.0			. 0	.0	-0
33-40	26-32		. 0					.0	.0	.0			.0	-0	.0
41-48 ,0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		.0	. 0			.0		.0	.0	.0			.0		. 0
49-60		.0	.0	.0		.0		.0	.0	.0			.0	.0	.0
61-70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	49-60		.0					.0	.0	.0			.0	.0	.0
71-86 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	61-70			.0				.0	.0	.0			.0	.0	.0
87+ .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	71-86		.0					.0	.0	.0			.0	.0	.0
TOT PCT .0 .7 .0 .7 .0 .0 1.3 .7 .0 .0 .0 .0 .7	87+		.0		.0			.0	.0	.0			.0	.0	.0
	TOT PCT		.7		.7	.0		1,3	.7	.0			.0	.0	.7

PAGE 084

P	A	G	E	0	8	5	

PERIO	ים: נסע	ER-ALL	195	4-197	7				TABLE	19											
					PERCENT	FREG	MENCY	OF WA	VE HEI	GHT (F	T) VS	HAVE P	ER100	(SECON	(\$0						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.4	3.7	9.8	4.7	.0	1.9	.5	. 9		.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	4
6-7	.0	. 5	3.7	6.5	1.4	5.1	4.7	1.4		.0	.0	.0		.0	.0	.0	.0	.0	.0	52	7
8-9	.0	1.4	.9	1.4	6.0	4.7	1.4	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	7
10-11	.0	.5	.0	.5	.5	1.4	.5	1.4	.5	.0	.0	.0	.0		.0	.0	.0	.0	.0	11	9
12-13	.0	.0	.0	.5	.5	.0	.5	.0	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	11
>13	.0	. 5	.0	.5	.0	. 9	.5	.5	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	6	10
INDET	4.2	6.5	3.7	1.4	1.4	3.3	2.3	.5	.0	.0	.0	.0			.0	.0	.0	.0	.0	50	4
TOTAL	12	28	39	33	21	37	22	11	9	2	1	0	0	0	0	0	0	0	0	215	6
PCT	5.6	13.0	18.1	15.3	9.8	17.2	10.2	5.1	4.2	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.6	7.8	.0	.0	.0	.0	10.5	003
				5.9				
					.7			
		.,						
							• 7	
							• -	
		.0	.0					
71-86	.0	.0	.0	.0		.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								153
TOT PCT	2.6	23,5	51.0	22.2	.7	.0	100.0	
	C1 1-2 3-4 5-6 7 7 10-11 12 13-16 17-12 23-25 24-25 24-48 49-60 61-70 71-86 87+	HGT 0-3 <1 2.6 1-2 .0 3-4 .0 5-6 .0 7 .0 8-9 .0 10-11 .0 12 .0 13-16 .0 17-19 .0 20-22 .0 23-25 .0 23-40 .0 49-60 .0 61-70 .0 87* .0	HGT 0-3 4-10 1-2 .0 7.8 1-2 .0 7.8 3-4 .0 5.9 5-6 .0 1.3 7 .0 .0 8-9 .0 .7 10-11 .0 .0 12 .0 .0 17-19 .0 .0 20-22 .0 .0 23-25 .0 .0 23-40 .0 .0 49-60 .0 .0 49-60 .0 .0 87+ .0 .0	HGT 0-3 4-10 11-21 1-2 1	HGT 0-3 4-10 11-21 22-33 1-2 .0 7.8 .0 .0 1-2 .0 7.8 13.7 .0 3-4 .0 5.9 17.0 5.2 5-6 .0 1.3 10.5 5.9 7 .0 .0 5.9 3.9 8-9 .0 .7 2.6 5.2 10-11 .0 .0 .7 .7 12 .0 .0 .7 .7 13-16 .0 .0 .0 .7 17-19 .0 .0 .0 .7 17-19 .0 .0 .0 .0 .7 20-22 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 23-26 .0 .0 .0 .0 .0 49-60 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 87* .0 .0 .0 .0	HGT 0-3 4-10 11-21 22-33 34-47 1-2 .0 7.8 .0 .0 .0 .0 3-4 .0 5.9 17.0 5.2 .0 7 .0 .0 5.9 3.9 .7 8-9 .0 .7 2.6 5.2 .0 10-11 .0 .0 .7 .7 .7 .0 12 .0 .0 .7 .7 .0 .0 13-16 .0 .0 .0 .7 .7 .0 17-19 .0 .0 .0 .7 .7 .0 17-19 .0 .0 .0 .0 .7 .7 20-22 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 23-340 .0 .0 .0 .0 .0 .0 33-40 .0 .0 .0 .0 .0 .0 49-60 .0 .0 .0 .0 .0 .0 87+ .0 .0 .0 .0 .0 .0 87+ .0 .0 .0 .0 .0 .0	C1	HGT 0-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 .0 7.8 .0 .0 .0 .0 .0 .0 10.5 1-2 .0 7.8 13.7 .0 .0 .0 .0 21.6 3-4 .0 5.9 17.0 5.2 .0 .0 28.1 5-6 .0 1.3 10.5 5.9 .0 .0 17.6 7 .0 .0 5.9 3.9 .7 .0 10.5 8-9 .0 .7 2.6 5.2 .0 .0 8.5 10-11 .0 .7 2.6 5.2 .0 .0 8.5 12 .0 .0 .7 7 .0 .0 .0 .0 .0 .0 13-16 .0 .0 .0 .7 .7 .0 .0 .0 .7 17-19 .0 .0 .0 .7 .7 .0 .0 .7 17-19 .0 .0 .0 .7 .7 .0 .0 .7 17-19 .0 .0 .0 .0 .7 .7 .0 .0 .7 20-22 .0 .0 .0 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 23-340 .0 .0 .0 .0 .0 .0 .0 .0 .0 33-40 .0 .0 .0 .0 .0 .0 .0 .0 .0 49-60 .0 .0 .0 .0 .0 .0 .0 .0 .0 49-60 .0 .0 .0 .0 .0 .0 .0 .0 .0 87+ .0 .0 .0 .0 .0 .0 .0 .0 .0

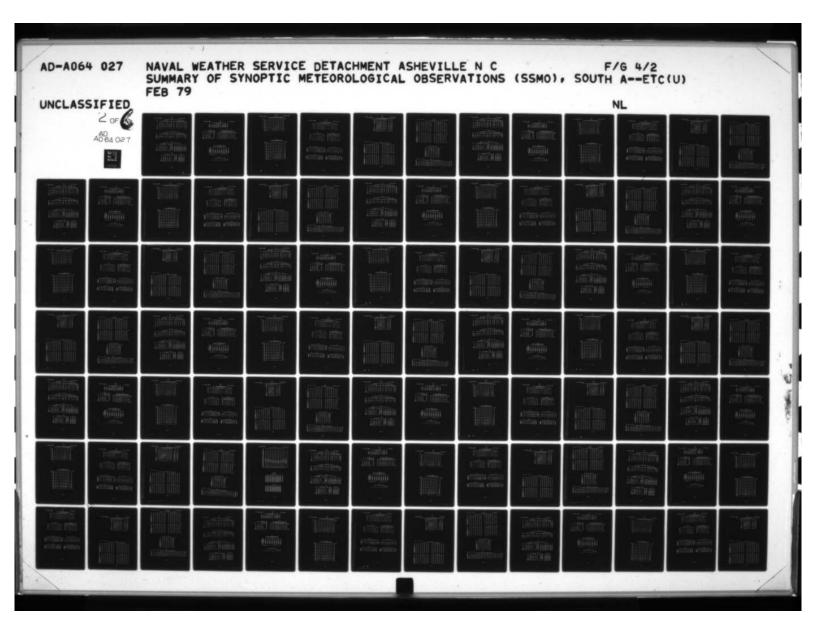
HGT	1-3	4-10	11-21	5 22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	0	 .0	.7	.0	.0	.0	.0	. 7	
1-2	.0	1.8	.7	.0	.0	.0	2.5	.0	2.1	.7	.0	.0	.0	2.8	
3-4	.0	.0	.0	.0	.0	.0	. 0	.0	2,6	3,8	.0	. 0	.0	6.4	
3-6	.5	.0	.0	.0	.0	.0	.0	.0	1.3	2.0	.7	.0	.0	3.9	
7	.0	.0	2.0	.0	.5	.0	2,5	.0	.0	.7	.0		.0	. 8	
8-9	. 0	.0	.0	.0	.0	.0	0	.0	.7	.7	.2	.0	.0	1.5	
10-11	.0	.0	.0	.0	.0	.0	. 0	.0	.0	.0	.0	. 0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	:0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	. 5	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0 0 0 0	.0	.0	
41-48	.0	.0	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	
OT PCT	.0	1.8	2,6	•0	.5	.0	4.9	.0	7.4	7.7	. 8	.2	.0	16.0	
				u							NW				ATOTA
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	 .0	2.1	.0	.0	.0	.0	2.1	
1-2	.0	.7	.0	.0	.0	.0	.7	.0	2.0	8.0	.0	0	.0	10.6	
3-4	.0	1.3	3.8	.0	.0	.0	5.1	.0	1.3	4.4	3.9	0	.0	9.6	
5-6	.0	.0	3.6	1.3	.0	.0	4.9	.0	.0	2.1	3.4	.0	.0	5.6	
7	.0	.0	1.1	.7	.0	.0	1.8	.0	.0	2.1	. 8	.0	.0	2.9	
8-9	.0	.0	1.3	2.9	.0	.0	4.2	.0	.0	.7	1.5	.0	.0	2.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.8	
12	.0	.0	.0	• 0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
1 -16	.0	.0	.0	.5	.0	.0	. 5	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0000	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0000	.0	.0	
26-32	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.3	9.8	5.4	.0	.0	18.5	.0	6.0	18.6	10.0	.0	-0	34.6	98.

PERIOD: (DVER-ALL) 1963-1977

JANUARY TABLE 18 (CONT)

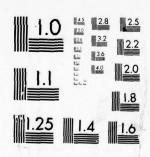
PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

AREA 0026 GULF DF PEILAS 47.05 76.2W



IFIED COF

AD A064027



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-7

PERIOD: (PRIMARY) 1906-1978 (OVER-ALL) 1865-1978

TABLE 1

AREA 0026 GULF DF PEILAS 76.1W

DERCENT	FREGUENCY	DE	WEATHER	BCCURRENCE	av	MENIO	MATTERIA

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN 9CPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	10.1	0.9	9.0	.0	.0	.0	.0	25.9	9.5	.0	4.2	.0	.0	.0	60.3
NE	23.5	23.5	5.9	.0	.0	.0	.0	52.9	.0	.0	.0	.0	.0	.0	47.1
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
SE	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	2.4	.0	.0	.0	.0	.0	3.2	5.6	2.4	.0	.0	.0	.0	.0	92.1
SW	5.8	.0	2.1	.0	.0	.0	1.1	10.0	6.8	.0	.0	.0	.0	.0	83.2
W	4.2	13.0	5.2	.0	.0	.0	1.0	23.4	3.6	,0	4.2	.0	.0	.0	68.8
NW	6.5	8.1	6.2	.0	.0	.0	1.2	20.8	9.6	.0	5.0	2.5	.0	.0	62.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	6.4	6.4	4.9	•0	.0	•0	1.1	18.6	6.8	.0	3.0	. 8	.0	.0	70.8

TABLE 2

DEDCENT	EDECLIENCY	DE	WEATHER	DCCURRENCE	0.4	HOUSE

					- 2										
			F	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST Hour	THOR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	4.8 6.7 10.0 4.1	4.8 6.7 5.7 8.1	3.2 5.0 10.0 2.7	.0	.0	.0	.0 2.9 1.4	12.7 18.3 28.6 14.9	6.3 5.0 7.1 8.1	.0	4.8 .0 5.7	3.3 .0	.0	.0	76.2 73.3 58.6 75.7
TOT PCT	6.4	6.4	5.2	.0	.0	•0	1.1	18.7	6.7	.0	3.0	•7	.0	.0	70.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			ED (KN) 22-33		48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21
N NE	.6	2.0	2.9	1.9	.8	.3		8.4	18.8	7.7	27.5	8.7	5.1	7.2	25.0	11.0	8.1
	.2	,3	.1		.0	.0		.7	8.9	.6	.0	1.0	.,9		.0	. 7	.2
E SE	.3	1.1	1.0		.0	.0		2.7	10.6	2.8	.0	3.2	2.6	3,3	.0		2.3
5	.5	5.4	6.1		.2	.1		14.3	13.9	14.1	27.5	12.9	16.1		9.1	12.5	15.3
SW	.6	6.2	7.3	5.1	1.9	. 3		21.3	18.1	23.0	12.5	23.9	21.5	22.6	20.5	16.5	23.6
W	. 8	5.8	8.8	6.4	1.8	.4		24.0	18.6	22.8	.0	24.4	27.1	22.0	13.6	25.4	23.4
NW	. 4	7.1	9.1	6,9	1.8	.4		25.7	18.4	26.0	32.5	23.6	23.8	24.2	31.8	29.1	25.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	1.1	.0	1.4	1.0	2.3	.0	1.4	. 9
TOT OBS	112	653	825	533	155	34	2312		17.2	368	10	355	313	383	11	556	316
TOT PCT	4.8	28.2	35.7	23.1	6.7	1.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	0-6	7-16	SPEED 17-27		41+	TOTAL OBS	PCT	MEAN SPD	00	HDU1 06 09	12 15	18 21
N	1.3	2.7	2,3	1.7	:4		8.4	18.8	8.3	7.0	7.7	9.9
E	.4	.2	.1		.0		.7	8.9	.6	.9	.6	.5
SE	1.0	1.2	.5		.0		2.7	10.6	2.7	3.0	3.2	2.2
S	2.5	6.6	4.3	.8	.1		14.3	13.9	14.5	14.4	15.8	13.5
SW	2.3	8.2	6.4	3.6	.7		21.3	18.1	22.8	22.8	22.5	19.1
W	2.9	7.9	8.0	4.5	.9		24.0	18.6	22.2	25.7	21.8	24.7
NW	2.6	9.5	8,2	4.5	. 8		25.7	18.4	26.2	23.7	24.4	27.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.1	1.2	2.3	1.3
TOT OBS	341	847	699	354	71	2312		17.2	378	668	394	872
TOT PCT	14.7	36.6	30.2	15.3	3.1		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1906-1978 (OVER-ALL) 1805-1978

TABLE 4

AREA 0026 GULF OF PEILAS 47.15 76.1W

PERCENTAGE	FREQUENCY	nF	WIND	SPEED	BY	HOUR	(GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10		22-33		48+	MEAN	FREQ	OBS
£0300	1.1	4.2	26.7	33.6	25.9	7.4	1.1	17.7	100.0	378
06409	1.2	2.5	28.6	36.1	24.0	6.3	1.3	17.3	100.0	668
12615	2.3	3.3	30.2	35.3	22.3	5.8	. 8	16.6	100.0	394
18821	1.3	3.9	27.8	36.5	21.4	7.1	2.1	17.3	100.0	872
TOT	32	80	653	825	533	195	34	17.2		2312
DOT	1 4	2 5	28 2	24 9	22 1	4 7			100 0	-

TABLE .

P	CT FRE			DIREC		(EIGHTHS)							CEILIN NH <5/					
WND DIR	0-2	3-4	5-7	8 & 085CD	TOTAL	COVER	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	1.1	1.5	3.9	12.0		6.8	.6	.4	3.7	1.8	1.9	6.1	.0	.0	.0	.0	3.9	
NE	.0	.0	.4	1.0		7.6	.1	.0	.4	.0	.4	.4	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	-0	.0	.0	.0	.0	
5	4.9	1.9	4.4	. 9		3,6	.0	.0	.0	.8	1.2	1.5	. 3	.0	.0	.0	8.3	
SW	2.2	1.9	8.8	6.2		5,8	.0	.0	.0	5.8	1.1	6.4	.5	.0	.0	.0	5,2	
	.3	.3	6.0	9.3		7.1	.3	.4	.6	5.1	1.3	2.9	.0	.4	.0	.0	4.8	
NW	.6	2.5	10.7	17.0		6.9	1.1	1.3	4.3	4.2	6.2	4.3	. 0	.0	.0	. 9	7.7	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM		.4	.0	1.3		5,8	.0	.0	.0	. 9		• •	.0	.0	.0	.0		
TOT OBS	22	20	79	110	231	6,3			21	43	29	50		• •		• • •	71	231
TOT PCT	9.5		1000	47.6		-,,		2 2		18.6				:	0		20 7	
101 201	7.0	8.7	34.2	7/.0	100.0		2.2	2.2	9.1	*0.0	12.6	21.6	1.7	. •	.0	. 4	30.7	100.0

TABLE 7

Cn	MULATIVE OF CEILIN	PCT FREG	OF SIMUL	TANEDO	VSBY (NM	ENCE
			VSBY (NM)			
· OR	- DR	- DR	- DR	- DR	- DR	

				VSBY (NM	1)			
CEILING	· OR	- DR	- DR	- DR	- DR	- DR	- DR	= DR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
- OR >6500	.4	.4	.4	.4	.9	.9	.9	.9
■ 7R >5000	.9	.9	.9	.9	1.3	1.3	1.3	1.3
■ DR >3500	2.2	2.6	2.6	2.6	3.0	3.0	3.0	3.0
■ DR >2000	15.1	23.7	24.1	24.1	24.6	24.6	24.6	24.6
■ DR >1000	19.0	33.6	35.3	35.8	36.6	36.6	36.6	36.6
■ DR >600	31.9	51.7	53.9	54.7	55.6	55.6	55.6	55.6
■ DR >300	34.1	54.7	59.5	62.5	63.8	64.2	64.2	04.2
■ OR >150	34.5	56.9	61.6	65.1	66.4	66.8	66.8	66.8
■ NR > 0	34.5	57.3	62.9	66.4	67.7	68.5	68.5	69.0
TOTAL	80	133	146	154	157	159	159	160

TUTAL NUMBER OF OBS1 232

PCT FREQ NH <5/81 31.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 0BSCD TOTAL OBS 6.2 2.5 8.7 8.3 5.8 6.6 14.5 11.6 33.6 2.1 241

			٧	

								7 6 8 6	CART						
PERIOD:		906-1978 865-1978						TAI	SLE 8				AREA	47.15	OF PEILAS
			PE	RCENT	PREC I	F WIN	D DIRE	TH VAR	ING V	URRENC	E OR N	IBILIT	URRENCE Y	OF	
	VSBY (NM)		N	NE	E	36	5	SW		NW	VAR	CALM	PCT	TOTAL	
	<1/2	PCP ND PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1.5		
		PCP	.6	.0	.0	.0	.0	.0	.6	1.0	.0	.0	1.9		
	1/2<1	NO PCP	: 4	.0	.0	.0	.0	.0	2	.6	.0	.0	1.1		
	1<2	PCP NO PCP TOT #	.7	.0	.0	.0	.3	.0 .1	,3	1.6 1.8	.0	.0	1.1 2.7 3.8		
	2<5	PCP NO PCP TOT %	1.1	.5	.0	.0	.0	.0	.0	1.8	.0	.0	3.4 2.7 6.1		
	5<10	PCP NO PCP TOT %	2.0 4.9 6.9	:4	.0	.0	.3	2.7 3.4	2.8 4.7 7.6	2.6 6.5 9.1	.0	.0	8.7 19.3 28.0		
	10+	PCP NO PCP TOT %	6.8	.4	.0	.0	11.0 11.4	1.1 13.4 14.5	1.1 8.1 9.3	1.5 12.6 14.1	.0	1.9	54.2 58.3		

TOT PGT 17.9 1.6 .0 .0 11.9 18.0 18.2 30.5 .0 1.9 100.0

TABLE 9

									ISIBIL				
(NM)	SPD KTS	N	NE	E	SE	S	SW	×	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	. 6	.9	.0		1.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	55+	. 3	.0	.0	.0	.0	.0	.0	.1	.0		.4	
	TOT &	. 3	•0	.0	.0	.0	.0	.6	1.0	.0	.0	1.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4	
	22+	.6	.0	.0	.0	.0	.0	. 2	.7	.0		1.5	
	TOT %	.9	•0	.0	.0	.0	.0	.2	.7	.0	.0	1.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.4	• 0	.0	.0	.0	.0	.6	.9	.0		1.9	
	11-21	.3	•0	.0	.0	.0	.0	.0	.5	.0		.7	
	22+	.6	.2	.0	.0	. 3	.1	.0	.7	.0		1.9	
	TOT %	1.2	•2	•0	.0	.3	.1	.6	2.1	.0	.0	4.5	
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2 < 5	4-10	.3	• 1	.0	.0	.0	.0	.0	1.1	.0		1.5	
	11-21	.6	.0	.0	.0	.0	.0	.0	1.3	.0		1.9	
	22+	1.0	.4	.0	.0	.0	.0	.0	1.2	.0		2.6	
	TOT \$	1.9	.5	•0	.0	.0	.0	.0	3.6	.0	.0	5.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	.4	.0	.0	.0	.3	1.3	1.7	1.6	.0		5.2	
	11-21	3.5	•6	.0	.0	.0	1.3	3.7	3.2	.0		12.3	
	22+	2.9	.2	.0	.0	.0	.7	2.0	4.2	.0		10.0	
	TOT \$	6.8	• 7	•0	.0	.3	3.3	7.4	8.9	.0	.0	27.5	
	0-3	1.1	.0	.0	.0	.0	.6	2.0	.0	.0	1.9	5.6	
10+	4-10	2.0	.0	.0	.0	3.3	4.5	2.0	4.9	.0		16.7	
	11-21	2.6	.4	.0	.0	5.7	6.0	3.8	4.9	.0		23.4	
	224	1.7	.0	• 0	.0	2.1	3.2	1.7	4.0	.0		12.6	
	TOT \$	7.4	• •	•0	.0	11.2	14.2	9.5	13.8	.0	1.9	58.4	
	nT 085												269
T	OT PET	18.5	1.6	.0	.0	11.7	17.7	18.2	30.3	.0	1.9	100.0	

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FEBRUARY

PERIODI	(PRIMARY)	1906-1978
	(DVER-ALL)	1865-1978

TABLE 10

AREA 0026 GULF OF PEILAS

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500	8000+	TOTAL	NH <5/8	TOTAL
60300	3.5	-0	8.8	22.8	5.3	14.0	3.5	.0	.0	1.8	59.6	40.4	57
06609	2.0	2.0	6.1	16.3	8.2	24.5	2.0	2.0	.0	2.0	65.3	34.7	49
12615	3.2	4.8	12.7	12.7	17.5	27.0	.0	.0	.0	.0	77.8	22.2	63
18621	.0	2.9	7.2	21.7	15.9	18.8	1.4	.0	.0	.0	68.1	31.9	69
PCT	2.1	2.5	8.8	18.5	12.2	50	1.7	1	0	2	162	76	238

TABLE 11

		PERCENT	FREQUEN	CY VSBY	(MM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/DR
(GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HDUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
60300	3.1	1.6	4.7	4.7	25.0	60.9	64	00203	3,6	12.5	35.7	25.0	39.3	56
06609	•0	3.3	3.3	8.2	37.7	47.5	61	06609	2.1	10.6	31.9	34.0	34.0	47
12615	4.2	2.8	8.5	4.2	23.9	56.3	71	12615	3,2	23.6	39.7	41.3	19.0	63
18621	•0	.0	1.3	6.6	25.0	67.1	76	18821	.0	10.6	36.4	33,3	30.3	66
PCT	1.8	1.8	4.4	16 5.9	27.6	159	272 100.0	PCT	2,2	34 14.7	36.2	78 33,6	70 30.2	232

TABLE 13

TABLE 14

PERCENT FREQUENCY OF MIND DIRECTION BY TEMP

NE E SE S SM W NW VAR C

.0 .0 .0 .8 1.0 .0 .0 .0

.0 .0 .0 .0 1.4 1.5 2.7 .0

1.4 .0 .0 7.2 5.1 4.3 16.5 .0

.5 .0 .0 4.0 8.4 12.3 7.8 .0

.0 .0 .0 .0 2.3 1.7 1.3 .0

.0 11.9 18.2 19.8 28.3

	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY BY	Y TEMP		
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	FREQ
65/69	.0	.0	•0	.0	.9	1.4	.0	.0	5	2.3
60/64	.0	.0	.5	. 5	.9	2.3	2.3	2.3	19	8.6
55/59	.0	.0	.0		6.4	10.0	14.1	13.2	97	44.1
50/54	.0	.0	.0	2.3	7.7	9.1	16.8	3.6	87	39.5
45/49	.0	.0	.0	.0	.5	.5	3,2	1.4	12	5.5
TOTAL	0	0	1	7	36	51	80	45		
PCT	.0	.0	. 5	3.2	16.4	21.2	34.4	20.5		

TABLE 15

	MEANS,	EXTREMES	AND	PERCENT	ILES	OF TEMP	(DE	5 F) B	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
E0300	73	64	59	53	47	45	44	53.3	379
90300	62	60	58	53	46	44	41	52.5	661
12815	63	61	59	54	47	46	40	53.4	383
18621	68	64	60	54	48	46	43	54.3	781
TOT	73	62	59	53	47	45	40	53.4	2204

			405.16	115		0	81 4001	•
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60300	.0	1.9	18.9	26.4	45.3	7.5	79	53
90300	.0	1.9	13.5	23.1	28.8	32.7	82	52
12615	.0	5.6	18.5	18.5	33.3	24.1	81	54
18821	.0	4.8	16.1	24.2	37.1	17.7	79	62
TOT	0	8	37	51	80	45	80	221

FEBRUARY

PERIOD: (PRIMARY) 1906-1978 (DVER-ALL) 1865-1978

TABLE 17 AREA 0026 GULF OF PEILAS 47,15 76.1M

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF MO G (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

						-	-				
AIR-SEA	45	52	53 56	57 60	61	68	69 72	73 76	707	FOG	FOG
17/19	.0	.0	.0	.0	.0	.0	.0	:6	1	:0	.4
14/16	.0	.0	.0	.0	.0	.4	.0	.0	1	.0	.4
11/13	.0	.0	.0	.0	.0		.0	.0	1	.0	.4
9/10	.0	.0	.4	.0	.0	. 6	.0	.0	3	.0	1.2
7/8	.0	.0	.4	1.6	.4	.0	.0	.0	6	:0	2.5
6	.0	.0	. 8	.4	.4	.0	.0	.0	4	.0	1.6
5	.0	.0	.4	2.5	.4	.4	.0	.0		.4	3.3
4	.0	.4	1.2	4.1	1.6	.0	.0	.0	18	:	6.6
3	.0	.4	1.6	4.5	1.2	.0	.0	.0	19		7.8
2	.0	.8	2.9	2.9	1.2	.0	.0	.0	19	. 8	7.0
1	.0	1.6	2.9	1.6	. 8	.0	.0	.0	17	. 4	6.6
1	.0	3.3	4.1	4.5	.0	.0	.0	.0	29	. 8	11.1
-1	.0	2.9	6.6	2.9	.0	.0	.0	.0	30	.0	12.3
-2	.4	4.5	5.7	1.2	.0	.0	.0	.0	29	.0	11.9
-3	. 8	4.5	5.3	.4	.0	.0	.0	.0	27	.0	11.1
-4	.4	2.5	2.5	.0	.0	.0	.0	.0	13	. 0	5.3
-5	. 8	2.0	1.2	.0	.0	.0	.0	.0	10	.0	4.1
-6	.4	.0	1.2	.0	.0	.0	.0	.0	4	.0	1.6
-7/-8	.0	. 8	.0	.4	.0	.0	.0	.0	3	.0	1.2
-9/-10	.4	.0	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL			91	•	15		0	•	_	. 8	236
		58		66	-	5		1	244		
PCT	3,3	23.8	37.3	27.0	6.1	2.0	.0	.4	100.0	3.3	96.7

PERIOD: (QVER-ALL) 1963-1978

0 0

TABLE 18

								.,	ADEC 10						
				PC	T FREQ	F WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
«1	.8	.6	.0	.0	.0	.0	1.5		.0	.0	.0	.0	.0	.0	.0 2 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1-2	.0	2.1	4.2	.0	.0	.0	6.3		.0	.2	.0	.0	.0	.0	.2
3-4 5-6	.0	.0	1.5	. 8	.0	.0	2.3		.0	.0	.8	.0	.0	.0	. 8
	.0	.0	2.1	.6	.0	.0	2.7		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	. 8	.0	.0	.8		.0	.0	.0	.8	.0	.0	.8
	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.6	.0	.6	.0	1.3		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.6	.0	.6		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32 33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	2.7	.0	.0	.0	.0	15.5		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.7	8.4	2.3	1.3	•0	15,5		.0	.2	.8	.8	.0	.0	1.9
				•								SE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-	48+	PCT
<1	.0	.0	.0	.0	.0	.0	- 0		.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25 26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	- 0	-0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	000000000000000000000000000000000000000
TOT PCT	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0

PAGE 090

								1	FEBRUAR	RY.							
PERIODI	LOVE	R-ALL)	1963-1	978				TABLE	18 (00	TAC				AREA			PEILAS
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND D	RECTIO	N	VERSUS S	EA HEIG	HTS (FT)			
				•									64				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT				10	11-21	22-33	34-47	48+		
<1	.0	. 6	.0	.0	.0	.0	.6			.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.6	1.3	.0	.0	.0	1,9				. 8	2.3	.0	.0	.0	6.1	
3-4	.0	. 5	2.3	.0	.0	.0	2.9			.0	.2	3.8	. 8	.0	.0	4.8	
5-6	.0	.0	1.3	1.5	.0	.0	2.7				.8	4.6	4.4	. 8	.0	10.7	
8-9	.0	.0	2.5	.0	.0	.0	2,5			0	0.0	.0	.0	.0	.0		
	.0	.0	2.5	.0	.0	.0	2,5			.0	.8	.0	.0	:0	.0		
10-11	.0	.0	• 0	.0	.0	.0	.0				.0	1.7	.0	:0	.0		
13-16	.0	.0	.0	.8	.0	.0	.8			.0	.0	.0	.0	.0	.0		
17-19	.0	:0	.0	.0	.0	.0	.0			0	.0	.0	.8	:0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0				:0	.0	:0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	:0				.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0				.0	.0	.0	0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0			0	.0	.0	.0	:0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			0	.0	.0	.0		.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.9	9.9	3.2	.0	•0	14.9			.0 5	.9	12.4	6.1	.8	.0	25.2	
													NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-	-3 4-	10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0			0	.2	.0	.0	,0	.0	.2	
1-2	.0	2.3	6.3	.0	.0	.0	0.6			0 1	.1	3.6	.0	.0	.0	4.6	
3-4	.0	1.7	4.4	.6	.0	.0	6,7			.0		3.2	1.9		.0	5.9	
5-6	.0	.0	. 8	.0	.0	.0	. 8			.0	.0	2.1	2.7	.0	.0	4.8	
7	.0	.0	.0	.8	.0	.0	. 8			.0	.0	.8	. 8	.0	.0	1.7	
8-9	.0	.0	.0	.0	.0	.0	.0				.0	.0	.0	1.7	.0	1.7	
10-11	.0	.0	.0	.0	.0	.0	.0				.0	. 8	. 8	.0	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0			0	.0	. 8	. 8	.0	.0	1.7	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.2	.8	1.9	.0		
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.2	.0		
20-22	.0	.0	.0	.0	.0	.0	.0			0	.0	.0	.0	0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	•0	.0	.0	.0				.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0			0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	•0	.0	.0	.0			0	:0	.0	.0	.0	.0	.0	
71-86 87+	.0	.0	.0	.0	.0	.0	.0				:0	.0	.0		.0	.0	
	.0	.0	11.0	.0	.0	.0	17.0			0 2	:1		.0	3.8			100.0
TOT PCT	.0	4.0	11.6	1.5	.0	.0	17.0			0 2	• 1	11.6	8.0	3.8	.0	25.4	10

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.8	1.7	.0	.0	.0	.0	2.5	003
1-2	.0	10.1	17.6	.0	.0	.0	27.7	
3-4	.0	3,4	16.0	4.2	.0	.0	23.5	
5-6	.0	. 8	10.9	9.2	.8	.0	21.8	
7	.0	.0	3.4	3,4	.0	.0	6.7	
8-9	.0	.0	2.5	.0	1.7	.0	4.2	
10-11	.0	. 6	2.5	. 8	.0	.0	4.2	
12	.0	.0	. 8	1.7	.0	.0	2.5	
13-16	.0	.0	. 8	1.7	2.5	.0	5.0	
17-19	.0	.0	.0	. 8	.8	.0	1.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	. 0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
-		••						119
TOT PCT	. 8	16.8	54.6	21.8	5.9	.0	100.0	-

				1-1978	,				TABLE	19											
					PERCENT	FREQ	UENCY	OF WA	VE HEI	GHT (F1	r) vs	WAVE PI	ERIOD	SECONO	120						
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
SEC)	.6	8.3	6.1	2.2	1.1	2.2	3.9	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	5
6-7	.0	1.7	1.7	2.2	3.3	1.7	3.3	5.0	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	8
8-9	.0	1.1	1.1	2.8	4.4	4.4	2.2	1.7	1.7	1.7	.6	.0	.6	.0	.0	.0	.0	.0	.0	40	9
10-11	.0	.6	.6	.0	2.2	2.8	1.1	1.1	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	9
8-9 10-11 12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	2	28
	.0	.0	.0	.0	.0	.6	1.1	.6	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0		14
INDET 1	1.1	.6	.0	.0	3.3	1.1	2.2	1.1	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	10
INDET 1	3	22	17	13	26	23	25	17	22	7	1	3	2	0	0	0	0	0	0	181	

TABLE 1

AREA 0026 GULF OF PEILAS 47.0\$ 76.0W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG			HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY	
N	10.0	4.0	10.0	.0	.0	.0	.0	24.1	12.0	.0	6.0	.0	.0	1.2	56.6
NE	6.8	.0	2.3	.0	.0	.0	.0	9.1	18.2	.0	.0	.0	.0	.0	72.7
E	12.1	9.1	12.1	.0	.0	.0	.0	33.3	12.1	.0	.0	.0	.0	.0	54.5
SE	9.1	2.3	.0	.0	.0	.0	.0	11.4	.0	.0	9.1	.0	.0	.0	79.5
S	2.5	2.5	2.5	.0	.0	.0	.0	7.5	4.3	.0	1.9	.0	.0	.0	86.3
SW	10.4	.0	7.3	.0	.0	.0	.0	17.6	5.2	.0	2.6	.0	2.1	.0	72.5
W	13.7	2.2	9.3	.0	.0		.0	25.2	5.6	.0	5.9	.0	.0	.0	63.3
NW	21.3	2.4	10.5	.0	.0	.0	.0	34.1	9.0	.0	3.9	.0	.0	.3	52.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6	8.3	2.8	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	:0	83.3
TOT PCT TOT OBS:	12.0	3.0	7.6	.0	.0	.0	.0	22.6	7.1	.0	3.8	.0	.3	,3	66.0

TABLE 2

DEBCENT	FREDLIENCY	OF	WEATHER	DCCURRENCE	RV	HOUR	

									and the second second						
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	8.8 12.5 13.3 19.5	5.1 2.5 2.2	4.4 10.0 11.1 9.8	.0	.0	.0	.0	18.2 25.0 26.7 29.3	10.2 1.3 8.9 6.1	.0	1.5 3.8 6.7 3.7	•0	1.3		69.3 68.8 57.8 61.0
TOT PCT	12.9	2.8	8.2	.0	•0	.0	•0	23.9	7.2	.0	3.6	•0	.3	.3	64.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			22-33		48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21
N NE	.9	2.8	4.6	2.2	1.2	.4		12.1	18.3	12.6					19.4	12.0	
	• 2	• 7	.4	• 1	•1	.0		1.5	12.2	1.4	.0		1.2	1,5	.0	1.7	1.3
E	• 1	.3	.2	.1	•	.0		.6	13.0	.5	.0			1.2	.0	. 8	. 4
SE	.3	1.0	.8			.0		2.1	9.7	1.8	.0	2.8	1.8	2.7	.0	1.7	2.0
S	. 8	5.6	5.9	1.8	.2	.1		14.3	13.3	12.4	.0	16.1	15.7	15.9	8.3	11.9	15.9
SW	. 8	5.9	6.8	3.4	. 9	.1		18.1	15.5	18.7	.0	18.8	18.2	16.8	13.9	16.4	21.1
W	.9	5.7	7.0		1.9	. 5		21.4	18.5	21.6	50.0			18.5	27.8	23.1	20.5
NW	.6	7.1	10.1	6.8	2.6	. 5		27.6	18.8	24.4	.0	27.2		28.0	19.4	31.1	27.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0		.0	.0
CALM	2.3	•••	••	••	••	••		2.3	.0	6.4	.0	1.5	1.5	2.0	11.1	1.3	
TOT OBS	178	760	000								••						
		752	929	515	182	41	2597		16.5	466	•	406	342	410	9	618	342
TOT PCT	6.9	29.0	35.8	19.8	7.0	1.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TA	BL	E	34

WND DIR	0-6	WIND 7-16	SPEED 17-27		41+	TOTAL DBS	PCT	MEAN SPD	00	HDU 06 09	12 15	18 21
N	1.8	4.2	3,8	1.7	.6		12.1	18.3	12.9		13.5	11.4
NE	.4	. 8	.2	•1	.0		1.5	12.2	1.4	1.4	1.5	1.6
E	.1	.3	.2		.0		.6	13.0	.5	.4	1.1	.7
SE	. 8	.9	.4		.0		2.1	9.7	1.8	2.3	2.7	1.8
SE S	3.0	6.6	3,8	. 8	.1		14.3	13.3	12.3	15.9	15.8	13.3
SW	3.2	7.6	4,8	2.0	.4		18.1	15.5	18.6		16.7	18.0
W	3.2	7.4	6,2	3.3	1.3		21.4	18.5	21.9	21.7	18.7	22.2
NW	2.7	10.5	8.6	4.4	1.3		27.6	18.8	24.2	26.6	27.9	29.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	-	-	.0
CALM	2.3		••	••	••		2,3			0	.0	
TOT DBS	457	991	748		04	2597	2,5	0	6.4	1.5	2.1	1.1
			728	325	3.7	5341		16.5	470	748	419	960
TOT PCT	17.6	38.2	28.0	12.5	3.7		100.0		100.0	100.0	100.0	100.0

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MARCH

PERIOD: (PRIMARY) 1907-1978 (OVER-ALL) 1865-1978

TABLE 4

AREA 0026 GULF OF PEILAS 76.0W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

					SPEED (PCT	TOTAL
HUUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
10300	6.4	5.1	27.7	39.4	14.7	6.2	.6	14.8	100.0	470
90300	1.5	4.7	27.9	36.1	20.6	7.4	1.9	17.0	100.0	748
12615	2.1	4.5	32.5	33.2	19.8	6.2	1.7	16.0	100.0	419
18621	1.1	4.1	28.9	34.9	21.8	7.5	1.8	17.2	100.0	960
TOT	61	117	752	929	515	182	41	16.5		2597
PCT	2.3	4.5	29.0	35.8	19.8	7.0	1.6		100.0	

TABLE 5

TABLE 6

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION						PERCENTAGE FREQUENCY OF CEILING MEIGHTS (FT,NH >4/8) AND OCCURRENCE OF MM <5/8 BY WIND DIRECTION													
			в	A MINE	DIREC	TION	MEAN				אווט טנ	CURREN	CE UP	MH 43/		INU D	IKECIII	אנ	
MND	DIR	0-2	3-4	5-7	8 & 085CD	TOTAL	COVER	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
	N	1.2	.0	5.0	10.9		7.0	.6	2.1	1,6	.8	3.0	1.7	.6	.0	.4	.7	5,6	
	NE	.0	.7	1.2	1.0		6,2	.0	.0	.9	. 8	.0	.1	.0	.0	.0	.0	1.2	
	E	.4	.6	.7	1.0		6.0	.0	.0	.4	. 3	.4	.7	.0	.0	.0	.0	1.0	
	SE	.4	. 4	.8	1.6		6,3	.4	.0	. 1	.4	.7	.0	.1	.0	.0	.0	1.5	
	S	3.1	1.8	5.1	3.4		5.0	.0	.0	1.7	. 5	2.7	2.1	.3	.0	.0	.0	5.9	
	SW	1.5	1.2	4.1	4.8		6.0	.4	.1	1.2	.6	4.3	.5	.4	.0	.0	.0	4.1	
	W	1.1	1.9	5.2	10.1		6.7	1.3	.3	3.6	1.7	3.0	2.4	.6	.0	.0	.0	5.3	
	NW	. 9	2.3	8.8	15.2		6,9	. 9	.4	2.9	4.4	5.8	3.5	.5	1.1	.0	. 4	7.4	
V	AR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CA		.7	.4	1.8	1.1		5,6	.0	.0	1.1	.0	.0	.7	.0	.0	.0	.0	2.1	
	OBS	26	26	92	138	282	6.4	10		38	27	56	33	• 7	3	1	• 3	96	282
	PCT	9.2	9.2	32.6	48.9	100.0		3.5	2.8	13.5	9.6	19.9	11.7	2.5	1.1		1.1	34.0	100.0

TARLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND YSBY (NH)

				VSBY (NM	1)			
CEILING	- DR	• OR	- OR	• OR	· DR	 OR 	• OR	· DR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ OR >6500	1.0	1.0	1.4	1.4	1.4	1.4	1.4	1.4
■ TK >5000	1.4	1.4	2.1	2.4	2.4	2.4	2.4	2.4
■ DR >3500	2.4	2.7	4.5	4.8	4.8	4.8	4.8	4.8
■ DR >2000	8.2	13.0	16.8	17.8	17.8	17.8	17.8	17.8
■ DR >1000	17.8	27.7	35.6	37.0	38.0	38.0	38.0	38.0
- DR >600	21.2	35.3	44.2	45.9	47.3	47.3	47.3	47.3
■ DR >300	26.0	45.5	55.1	57.5	59.9	59.9	60.3	60.3
- DR >150	26.0	47.6	57.9	60.3	62.7	62.7	63.0	63.0
- TR > 0	26.0	47.6	58.6	61.0	63.7	66.1	66.8	06.8
TOTAL	76	139	171	178	186	193	195	195

TOTAL NUMBER OF DBS1 292

PCT FREQ NH <5/81 33.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 6 08SCD 08S 4.9 5.2 8.1 7.8 6.5 5.8 8.1 12.0 38.0 3.6 308

A		-	

PERIOD: (PRIMARY) 1907-1976 (DVER-ALL) 1865-1978

TABLE 8

AREA 0026 GULF OF PEILAS 47,05 76.0W

		P	ERCENT	FREO PREC	OF WIN	D DIRE	CTION TH VAR	VS DC	URRENC	E OR N	ON-OC	CURRENC	E OF
VSBY (NM)		N	NE	E	SF	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.9	1.0	.0	.0	1.9	
<1/2	NO PLP	. 9	.0	.0	. 3	.2	.1	, 3	.1	.0	.0	1.9	
	TOT %	.9	.0	.0	.3	. 2	. 1	1.2	1.1	.0	.0	3.7	
	PCP	. 5	. 1	.0	.0	.0	.0	.0	.9	.0	.0	1.6	
1/2<1	NO PCP	.3	. 3	.0	.0	.0	.3	.0	. 3	.0	.0	1.2	
	TOT %	. 9	.4	.0	.0	.0	.3	.0	1.2	.0	.0	2.8	
	PCP	.2	.1	.0	.0	.0	.0	.0	.6	.0	.0	.9	
1 < 2	NO PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT &	.2	. 4	.0	.0	.0	.0	.0	. 6	.0	.0		
	PCP	1.9	.0	.2	.1	.3	1.6	1.6	2.3	.0	.3	8,4	
245	NO PCP	1.1	.0	.0	.1	. 2	.3	.6	. 8	.0	.0	3.1	
	TOT \$	3.0	.0	, 2	.2	. 5	1.9	2.3	3.1	.0	.3	11.5	
	PCP	1.4	.2	.3	.3	.3	1.0	1.9	3.6	.0	.3	9.3	
5<10	NO PCP	4.9	.5	. 5	. 6	1.7	3.0	6.1	7.9	.0	.6	25,9	
	TOT %	6.3	.6	. 9	.9	2.0	4.0	8.0	11.5	.0	.9	35,2	
	PCP	.5	.0	.3	.0	.3	.1	. 9	.7	.0	.6	3,4	
10+	NO PCP	5.8	1.9	1.2	1.4	9.1	6.8	6.5	7.2	.0	2.2	42.1	
	TOT &	6.3	1.9	1.5	1.4	9.4	6.9	7.3	7.9	.0	2.8	45.5	
	TOT OBS												321
	TOT PCT	17.6	3.3	2.6	2.8	12.2	13.1	18.8	25.5	.0	4.0	100.0	

TABLE 9

	PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL	
	0-3	.0	.0	. 2	.4	.0	.0	.0	.0	.0	.0	.6		
<1/2	4-10	.2	.0	.0	.0	. 2	.1	.0	.4	.0		.9		
	11-21	.6	.0	.0	.0	.0	.0	.9	.0	.0		1.4		
	22+	.0	.0	.0	.0	.0	.0	.2	.7	.0		.9		
	TOT \$. 8	.0	. 2	.4	.2	.1	1.1	1.0	.0	.0	3.8		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	4-10	.0	.3	.0	.0	.0	.3	.0	.3	.0		.9		
	11-21	.6	.0	.0	.0	.0	.0	.0	.0	.0		.6		
	22+	.2	. 1	.0	.0	.0	.0	.0	.9	.0		1.2		
	TOT \$.8	.4	.0	.0	.0	.3	.0	1.2	.0	.0	2.6		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	4-10	.0	.3	.0	.0	.0	.0	.0	.3	.0		.6		
	11-21	.2	.1	.0	.0	.0	.0	.0	.3	.0		.6		
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0		.3		
	TOT \$.2	.4	.0	.0	.0	.0	.1	.7	.0	.0	1.4		
	0-3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.3	.9		
2<5	4-10	.3	.0	.2	.1	.2	.9	.0	.3	.0		2.0		
	11-71	1.0	.0	.0	.0	.3	.6	.7	.9	.0		3.5		
	22+	1.8	.0	.0	.0	.0	.3	1.8	2.5	.0		6.4		
	TOT \$	3.1	•0	.2	•1	.5	1.7	2.5	4.2	.0	.3	12.8		
	0-3	.0	.1	.2	.0	.0	.0	.0	.3	.0	.9			
5<10	4-10	1.7	.3	.0	.6	. 8	2.1	1.6	1.7	.0		8.7		
	11-21	2.2	.1	.3	.3	1.1	1.3	3.8	6.5	.0		15.7		
	22+	2.0	.1	.3	.0	.0	1.3	2.8	2.8	.0		9.3		
	TOT \$	5.9	.6	.8	.9	1.9	4.7	8.2	11.3	.0	.9	35.1		
	0-3	.5	.0	.0	.0	.3	.3	.0	.1	.0	2.6	3.8		
10+	4-10	2.0	1.5	1.1	.7	2.7	2.3	1.3	1.2	.0		12.8		
	11-21	2.0	.0	. 3	.6	4.5	3.3	4.2	3.4	.0		18.3		
	22+	2.1	.3	.0	.0	1.3	. 8	2.2	2.9	.0		9.6		
	TOT \$	6.6	1.8	1.4	1.3	8.8	6.7	7.7	7.5	.0	2.6	44.3		
	nT 085												345	
	TOG TO	17.4	3.1	2.6	2.7	11.4	13.5	19.6	25.9	- 0	3.8	100.0		

PERIOD: (PRIMARY) 1907-1976 (QVER-ALL) 1865-1978

TABLE 10

AREA 0026 GULF DF PEILAS 47.05 76.0W

PERCENT	FREQUENCY			>4/81	ONA

HOUR (GMT)	149	150 299	300 599	949	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
60300	1.4	2.9	14.5	14.5	20.3	10.1	.0	.0	.0	1.4	65.2	34.8	69
90380	5.6	1.4	11.1	9.7	16.7	11.1	1.4	1.4	.0	2,8	61.1	38,9	72
12615	4.8	3.6	15.7	4.8	18.1	15.7	2.4	1.2	1.2	.0	67.5	32,5	83
18621	2.8	2.8	11.1	8.3	25.0	13.9	5.6	1.4	.0	.0	70.8	29.2	72
TOT PCT	3.7	2.7	39 13.2	9.1	59 19.9	38	2.4	1.0	.3	1.0	196	100	296

TABLE 11

TABLE 12

					-									
		PERCENT	FREQUE	NCY VSBY	(NM)	84 HOUR		CUMULAT	TVE PCT	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GHT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
£0300	1.2	1.2	2.4	15.7	42.2	37.3	83	£0300	1.5	19.1	48.5	22.1	29.4	68
90360	4.4	1.1	1.1	15.6	35,0	42.2	90	90300	5.7	18.6	41.4	21.4	37.1	70
12615	5.3	4.3	5.3	8.5	34.0	42.6	94	12615	4,9	25.6	39.0	32,9	28.0	82
18621	3.4	3.4	2.2	13.5	27.0	50.6	89	18821	2.8	19.4	38.9	33,3	27.8	72
TOT	3.7	2.5	2.8	13.2	123	154	356 100,0	TOT	3.8	20.9	122	27,7	30.5	292 100.0

TABLE 13

2.4 2.5 3.3 11.3 11.9 17.3 24.2

	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY 8	Y TEMP	TOTAL	PCT
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREG
60/64	.0	.3	.0	.6	1.2	.9		.9	14	37.5
55/59	.0	.0	.9	. 3	6.3	8.7	11.4	9.9	125	37.5
50/54	.0	.0	.0	. 3	5.1	9.6	14.4	15.3	149	44.7
45/49	.0	.0	.0	. 9	1.5	2.4	5.4	1,5	39	11.7
40/44	.0	.0	.0	.0	.0	.0	1.2	.0	4	1.2
35/39	.0	.0	.0	.0	.0	.0	.6		2	.6
TOTAL	0	1	3	7	47	72	111	92	333	100.0
PCT	.0	.3	.9	2.1	14.1	21.6	33,3	27.6		

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

R MAX 99% 95% 50% 5% 1% MIN MEAN TOTAL
DBS
13 64 60 58 52 46 42 38 52,5 748
15 64 59 57 51 46 43 40 51,5 748
15 64 59 58 39 46 44 42 52,3 416
16 66 60 58 52 46 44 36 52,3 2516

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL
(GMT)
00803 .0 3.1 18.8 20.3 26.1 29.7 81 128
00809 .0 2.9 10.3 16.2 38.2 32.4 84 88
12615 .0 2.4 9.6 24.1 38.6 25.3 83 83
12612 .0 4.2 15.3 26.4 33.3 20.8 80 72
TOT 0 11 50 76 118 96 82 351

MARCH

PERIOD: (PRIMARY) 1907-1978 (GVER-ALL) 1865-1978

TABLE 17

AREA 0026 GULF OF PEILAS 47.05 76.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

**	HIN	35-							
AIR-SEA	41	45	49	53	57	61	TOT	W	WO
THP DIF	44	48	52	56	60	64		FOG	FOG
								-	
14/16	.0	.0	.0	.0	.3	.0	1	.0	. 3
11/13	.0	.0	.0	.0	.3	. 3	2	.0	.6
7/8	.0	. 0	.0	.0	1.4	.9	1 8 1 11	.0	2.3
6	.0	.0	.0	.0	.3	.0	1	.0	. 3
5	.0	. 6	.3	.9	1.4	.0	11	.3	2.8
4	.0	.0	.3	2.3	1.7	.0	17	.3	4.6
3 2 1 0 -1 -2 -3	.0	.0	1.4	4.3	2.3	.6	30	.3	8.3
2	.0	.6	1.1	2.8	1.1	.0	20	.9	4.8
1	.0	.3	2.8	6.6	3.1	.0	45	.6	12.3
Ö	.0	. 3	5.4	7.4	2.8	.0	56	.3	15.7
-1	.0	. 9	2.8	5.4	. 0	.0	34	.0	9.7
-2	.6	1.4	3.4	5.7	1.1	.0	43	.0	9.7
-3	.0	1.4	3.4	2.3	. 3	.0	24	.0	6.8
-4	.0	2.0	4.8	.9	.0	.0	27	.0	7.7
-5	.3	.6	1.1	1.1	.0	.0	11	.0	3.1
-6	. 3	1,1	2.3	.0	.0	.0	13	.0	3.7
-7/-8	.6	.3	.6	.0	.0	.0	5	.0	1.4
-9/-10	.0	. 3	.0	.0	.0	.0	1	.0	. 3
-11/-13	.0	.3	.3	.0	.0	.0	1 2	.0	.6
TOTAL	6	•	106		59		-	9	342
		33		139	-	8	351		
PCT	1.7	9.4	30.2		16.8	2.3	100.0	2.6	97.4

PERIOD: (DVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) N 22-33 .0 .0 .0 2.0 1.2 1.0 .5 1.2 .7 .7 .7 .0 .0 .0 .0 HGT 11-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 26-32 23-25 26-32 33-40 41-48 49-60 61-70 71-86 T PC 34-47 1-3 4-10 3.2 .7 1.2 .5 .0 .0 .0 .0 .0 .0 .0 .0 1-3 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 71-86 87-77 71-86 1-3 11-21 1-3 4-10 11-21 22-33

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PERIOD:	/OVE	9-4111	1963-1	0-0					HAI	l l				ADEA	0026	GILL E O	F PEILAS
PERIOD.	LDAE	-ALL,	1703-1	4/0				TABLE	18	CONT)			***	47.		6.0W
				PC	T FREQ (F WIND	SPEED	(KTS)	AND	DIREC	TION	ERSUS S	EA HEIG	HTS (FT)		
				s									SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.7	.7	.0	.0	.0	.0	1.4			.0	2.0	.0	.0	.0	.0	2.0	
1-2	.0	.7	4.1	.0	.0	.0	4.8			.0	.2	1.4	.0	.0	.0	1.5	
3-4	.0	.7	2.5	.0	.0	.0	3,2			.0	1.4	1.5	.0	0	.0	2.9	
5-6	.0	.0	.5	.0	.0	.0	.5			.0	.7	1.0	.0	.0	.0	1.7	
7	.0	.0		.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.7	.0	.7			.0	.7	.0	.7	.0	.0	1.4	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	. 1	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	2.0	7.1	.0	.7	.0	10.5			.0	4.9	3,9	.7	.0	.0	9.5	
				w									NW	34-47			TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33		48+	PCT	PCT
<1	.0	.0	.0	•0	.0	.0	.0			.0	.9	.2	.0	.0	.0	1.0	
1-2	.0	1.0	2.6	.0	.0	.0	3.6			.0	2.9	4.8	0	.0	.0	7.7	
3-4	.0	. 7	1.5	•0	.0	.0	2.2			.0	.9	5.1	1.4	.0	.0	7.3	
5-6	.0	1.2	3.6	• 0	.0	.0	4,8				.3	3.7	4.8	1.4	.0	10.2	
7	.0	.7	.7	.5	.0	.0	1.9			.0	.0	.0	1.0	.2	.0	1.2	
8-9	.0	.0	1.4	1.2	.0	.0	2,6			.0	.0	.7	2.2	.0	.0	2.9	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	2.2	.0	.0	2.2	
12	.0	.0	.7	.0	.0	.0	.7			.0	.0	.2	.9	.0	.0	.9	
17-19	.0	.0	.5	.0	.0	.0	.5			.0	.0	.0		.2	.0	.2	
20-22	.0	.0	• ?	.0	.0	.0	.0			.0	.0	.0	.0	.7	.0	.7	
23-25	.0		• 0	.0		.0	.0			.0	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	•0	.0	.0	.0			.0	.0			:0	.0	.0	
26-32 33-40	.0	.0	•0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
	.0	.0	• ?	•0	.0	.0	.0			.0	.0			•0			
41-48	.0	.0	• 0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
71-86	.0	.0	• 0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
87+	.0	.0	•0	•0	•0	.0	.0			.0	.0	.0	.0		.0	.0	
TOT PCT	.0	3.6	10.9	1.7	.0	.0	16.2			.0	4.9	14.6	12.4	2.4	.0	34.4	98.0
TOT PCT	.0	3.0	10.9	1.7	.0	.0	10.5			.0	***	14.0	4	2.	.0	34.4	78.0

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
нст	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.4	8,1	.7	.0	.0	.0	12,2	000
1-2	.0	7.4	16.9	.0	.0	.0	24.3	
3-4	.0	5,4	13.5	1.4	.0	.0	20.3	
	:0	3,4		6.8	1.4	.0	20.9	
5-6	.0	2.7	10.1		1.7	• • •		
7	.0	.7	.7	2.7	• '	.0	4.7	
8-9	.0	.0	2.7	4.7	.0	.0	7.4	
10-11	.0	.0	.0	2.7	.0	.0	2.7	
12	.0	.0	.7	2.0	.0	.0	2.7	
13-16	.0	.7	.7	1.4	.7	.0	3.4	
17-19	.0	.0	.0	.0	.7	.0	.7	
20-22	.0	.0	.0	.0	.7	.0	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0			.0	.0	.0	.0	
		.0	.0		.0	.0	• • •	
49-60	.0	.0	•0	.0			.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								148
TOT PCT	3.4	25.0	45.9	21.6	4.1	.0	100.0	

PERIOD: (DVER-ALL) 1952-1978

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS) 7 8-9 10-11 2.4 1.6 .8 4.4 5.2 1.2 2.4 6.0 3.6 .8 2.0 .0 .0 1.2 .4 .4 .0 .0 .4 .4 .4 27 41 16 10.8 16.5 6.4 87+ TOTAL MEAN
.0 74 4
.0 41 8
.0 59 8
.0 22 9
.0 16 11
.0 26 5
0 249 7
.0 100.0 PERIOD (SEC) <6 6-7 8-9 10-11 12-13 >13 INDET TOTAL PCT <1 1-2
4.0 6.8
.0 .0
.0 .0
.0 .0
.0 .0
.0 .0
.0 .0
.17
8.0 6.8 5-6 8.0 2.4 5.2 2.0 1.6 1.2 2.4 57 22.9 3-4 4.8 1.2 3.2 .4 .8 .0 1.2 29

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1855-1977

TABLE 1

AREA 0026 GULF OF PEILAS 47.05 76.1W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	FRZN PCPN	HAIL	PCPN AT	PCPN PAST Hour	THOR	FOG WO PCPN	PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	16.6	3.5	12.6	.0	.0	.0	.0	32.7	1.5	1.5	1.5	.0	.0	.0	62.8
NE	18.4	.0	2.0	.0	.0	.0	.0	20.4	.0	2.0	.0	.0	.0	.0	77.6
E	.0	.0	16.0	.0	.0	.0	.0	16.0	.0	.0	.0	.0	.0	.0	84.0
SE	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0	75.0
S	5.7	.0	.0	.0	.0	.0	.0	5.7	2.1	.0	.0	.0	.0	.0	92.2
SW	5.8	4.4	5.8	.0	.0	.0	.0	16.1	3.6	.0	2.9	.7	.0	.0	76.6
W	5.2	0.3	12.0	.0	.0		2.1	27.6	7.8	.0	.0	1.6	.0		63.0
NW	18.4	0.9	1.4	.0	.0	.0	.0	26.7	2.8	.0	2.3	.0	.0		68.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.1	.0	.0	.0	.0	.0	.0	9.1	9.1	.0	9.1	.0	.0	.0	72.7
TOT PCT	11.8	4.2	6.1	.0	.0	•0	.4	22.4	3.4	.4	1.5	• 4	.0	.0	71.9

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	POG HO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	9.8 13.3 11.7 10.8	4.9 3.3 2.6 5.4	6.6 1.7 7.8 9.5	.0	.0	.0	1.7	21.3 20.0 22.1 25.7	3.3 5.0 2.6 4.1	.0 .0 .0	1.6 .0 5.2 2.7	.0 .0 .0	•0	.0	73.8 75.0 70.1 64.9
TOT PCT	11.4	4.0	6.6	•0	•0	•0	.4	22.4	3.7	.4	2.6	.4	•0	.0	70.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WZ	VD SPE	ED IKN	DTS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N NE	.7	3.4	3.9		1.3	.3		13.1	18.8	13.0	.0	11.7	7.2	12.6	25.0	17.1	15.1
E SE	.3	1.3	.7	.1	.0	.0		2.3	10.0	1.9	.0	2.4	2.9	3.1	.0	2.1	1.8
SE	1.0	1.9	4.6		.5	.0		13.9	13.4	13.7	25.0	3.7	17.2	15.2	33.3	12.3	13.8
SW	.4	5.0	6.0	3.6	1.8	.1		16.9	17.9	16.5	.0	19.7	17.5	16.4	.0		18.6
NW NW	.4	4.2	7.9			. 7		21.2	19.3	23.2	50.0	23.5	20.5	18.7	.0		
VAR	.0	•0	.0			.0		.0	.0	.0	.0	.0	20.0	23.4	8.3	23.2	18.8
CALM TOT OBS	1.6		770	405	140	••		1.6	0	2.6	25.0	2.1	207	1.9	.0	1.0	1.0
TOT PCT	109	570 26.6	770 35.9			1,8	2145	100.0	17.6	351 100.0	100.0	341	100.0	100.0	100.0	100.0	298

rA	B	L	E	3	A

WND DIR	0=6	₩IND 7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00 03	06 09	12 15	18 21
N NE	2.1	4.2	3.8	2.2	:9		13.1	18.8	12.9	9.6	12.7	16.3
E	.6	1.5	,2	.1	.0		2.3	10.0	1.8	2.7	3.1	2.0
SE	.9	2.0	1.0	.2	.1		4.2	13.4	4.6	3.7	4.5	4.3
S	3.1	5.7	3,3	1.1	.6		13.9	14.9	13.8		15.3	12.9
SW	1.7	7.5	4.1	3.0	.7		16.9	17.9	16.3	18.7	16.3	16.1
W	1.7	6.4	8.1	3.7	1.2		21.2	20.2	23.0	22.1	18.6	20.8
NW	2.0	7.2	8.8	3.2	1.1		22.3	19.3	20.6	23.7	23.3	21.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	2.8	1.4	1.9	1.0
TOT OBS	310	792	649	294	100	2145		17.6	355	638	370	782
TOT PCT	14.5	36.9	30.3	13.7	4.7		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1855-1977

TABLE 4

AREA 0026 GULF OF PEILAS 47.05 76.18

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	MIND	SPEED (34-47	48+	MEAN	PCT	TOTAL
00603	4.8	4.2	24.5	38.3	20.0	7.9	2.3	17.2	100.0	355
06609	1.4	3.0	28,1	35.7	23.2	7.1	1.6	17.2	100.0	638
12615	1.9	4.1	27.6	35.9	24.1	4.9	1.6	16.9	100.0	370
18421	1.0	3.3	25,8	34.9	23.9	9.1	1.9	18.4	100.0	782
TOT	34	75	570	770	495	162	39	17.6		2145
PCT	1.6	3.5	26,6	35.9	23.1	7.6	1.8		100.0	

P	CT FRE			LOUD A		(EIGHTHS)			PERCEN	TAGE F	REQUEN	ICY DF	CEILIN NH 45/	G HEIG	HTS (FT,NH :	>4/8) DN	
WND DIR	0-2	3-4	5-7	8 &	TOTAL	CLOUG COVER	000 149	150 299	300 599	600	1000	2000	3500 4999	5000 6499			NH <5/8 ANY HGT	
N	1.4	1.0	3.6	13.9		6,9	.8	.3	2.3	2.3	6.9	1.6	.7	.0	.0	.0	4.5	
NE	. 9	. 1	1.6	2.8		5.9	.0	. 1	.2	. 8	1.8	.6	.0	.0	.0	.0	1.9	
E	.5	. 5	.3	1.6		6,1	.0	.0	. 3	.0	.5	.3	.0	.0	.0	.0	1.6	
SE	2.4	.5	.9	1.2		3,8	.0	.0	.0	.6	.3	.1	.2	.0	.0	.0	3.7	
S	3.8	2.4	5.7	2.0		4.5	. 5	.0	.5	.7	3.3	. 8	. 2	.0	.0	.0	8.0	
SW	.7	1.6	6.8	4.2		6,1	.0	.0	.0	2.0	3.7	2.4	.6	.0	.0	.0	4.5	
W	1.5	1.5	7.7	7.6		6,3	.0	.0	1.6	2.0	4.8	1.5	2.5	.0	.5	.5	5.0	
NW	. 7	2.0	6.9	8.8		6.6	.1	.0	1.4	3.8	3.6	1.4	2.1	. 5		.0	5.5	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	3,2		7.0	.0	.0	. 5	. 5	1.4	.5	.0	.0	.0	.0	.0	
TOT OBS	27	21	74	99	221	6.1	3	1	15	28	58	20	14	1	1	. 1	79	221
TOT PCT	12.2	9.5	33.5	44.8	100.0		1.4	.5	6,8	12.7	26.2	9.0	6.3	. 5	. 5	, 5	35.7	100.0

TABLE 7

	OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT	(NH >4/8) AND VSBY (NM)

				VSBY (NF	11			
CFILING	- OR	= DR	• DR	- OR	- OR	· OR	• DR	# DR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
- OR >6500	.4	.4	.9	.9	.9	.9	.9	.9
■ DR >5000	.9	.9	1.3	1.3	1.3	1.3	1.3	1.3
■ TR >3500	3.1	6.2	6.6	7.5	7.5	7.5	7.5	7.5
- OR >2000	8.4	14.6	15.9	16.8	16.8	16.8	16.8	16.8
■ DR >1000	27.9	39.4	42.0	43.4	43.4	43.4	43.4	43.4
- DR >600	31.9	49.6	54.9	50.2	56.2	56.2	56.2	56.2
8 DR >300	35.4	54.0	61.1	62.8	62.8	62.8	62.8	62.8
■ OR >150	35.4	54.0	61.5	63.3	63.3	63.3	63.3	63.3
- OK > 0	36.3	54.9	62.4	64.2	64.2	65.0	65.0	05.0
TOTAL	82	124	141	145	145	147	147	147

TUTAL NUMBER OF OBSI 226 PCT FREQ NH <5/81 35.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 08SCO 08S 5.6 4.7 8.6 7.8 7.8 10.8 8.6 10.3 34.1 1.7 232

PERIOD:	(PRIMARY)	1907-1977	

AREA 0026 GULF OF PEILAS 47,05 76.1W

		P	ERCENT	PREC	IPITAT	D DIRE	TH VAR	VS DCC	ALUES	E OR N	IBILI	CURRENC TY	E OF
SBY (NM)		N	NE	E	SE	s	SW	w	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2	NO PCP	. 3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	TOT &	. 3	.0	.0	.0	.0	.0	.0	. 1	.0	.0	.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1241	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT &	.0	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.4	.0	.0	.0	.0	.0	.2	1.0	.0	.0	1.5	
<2	NO PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	TOT %	.4	.0	.0	.0	.0	.4	. 2	1.0	.0	.0		
	PCP	1.2	.2	.4	.0	.0	.0	1.0	1.7	.0	.0	4.6	
<5	NO PCP	1.0	.1	.0	.0	.0	.0	.0	.4	.0	.4	1.9	
	TOT \$	2.3	.3	.4	.0	.0	.0	1.0	2.1	.0	.4	6.5	
	PCP	3.8	.7	.0	.0	.4	1.7	2.7	2.6	.0	.4	12.2	
<10	NO PCP	3.3	1.0	.0	.5	1.1	2.0	3.2	5.6	.0	.4	17.1	
	TOT %	7.1	1.6	.0	.5	1.5	3.7	5.9	8.2	.0	. 8	29.3	
	PCP	.8	.1	.0	1.1	.4	.4	1.1	.3	.0	.0	4.2	
10+	NO PCP	8.1	2.7	2.0	2.9	11.5	8.6	10.0	9.0	.0	3.0	57.8	
	TOT %	8.8	2.8	2.0	4.1	11.9	8.9	11.1	9.3	.0	3.0	62.0	
	TOT 085												263
	TOT PCT	18.9	4.7	2.4	4.6	13.4	13.0	18.3	20.6	.0	4.2	100.0	

TABLE 9

VSBY (NM)	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
Cidera	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	062
<1/2	4-10	.3	.0	.0	.0	.0	.0	.0	.1	.0	•••	.4	
	11-21	.0	.0	•0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.4	.0		.4	
	TOT \$.0	•0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.4	•0	.0	.0	.0	.0	.0	.4	.0		.7	
	22+	.0	•0	.0	.0	.0	.4	.2	.5	.0		1.1	
	TOT \$.4	•0	•0	•0	.0	.4	.2	.9	.0	.0	1.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
2<5	4-10	. 3	•1	.4	.0	.0	.0	.3	.1	.0		1.1	
	11-21	1.0	• 4	.0	.0	.0	.0	.7	1.1	.0		3.2	
	42+	1.1	• 2	.0	.0	.0	.4	.0	1.6	.0		3.2	
	TOT \$	2.3	.6	.4	.0	.0	.4	1.0	2.8	.0	.4	7.7	
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	1.4		
5<10	4-10	1.8	.1	.0	.4		1.8	1.1	1.0	.0		7.0	
	11-21	3.5	1.1	.0	.0	.6	1.3	3.2	4.6	.0		14.4	
	22+	1.6	.4	.0	.0	.4	.7	1.1	2.5	.0		6.7	
	TOT \$	7.1	1.5	.0	.4	1.8	3,8	5.4	8.1	.0	1.4	29.5	
	0-3	1.1	. • •	.0	.0	.4	.0		.4	.0	2.8		
10+	4-10	5.5	1.7	1.2	1.7	4.6	3.9	3.2	2.5	.0		24.2	
	11-21	1.2	• •	.6	1.9	5.2	3.6	4.7	3.7	.0		21.4	
	424	1.1	1	0	2	1.5	1.0	2.4	2.5	.0		9.5	
	TOT \$	8.9	2.5	1.8	3.8	11.7	9.3	10.6	8.9	.0	2.8	60.4	
													285
	INT PET	18.9	4.6	2.2	4.2	13.4	13.8	17.2	21.1	.0	4.6	100.0	

	R		

PERIOD:	(PRIMARY)	1907-1977
	(OVER-ALL)	1855-1977

TEMP F

.000000000

TABLE 10

AREA 0026 GULF DF PEILAS 47.05 76.1W

OCCURRENCE OF NH <5/8 BY HOUR	PERCENT	FREQUENCY OF	CEILING	HEIGHTS	(FEET, NH	>4/8)	AND
-------------------------------	---------	--------------	---------	---------	-----------	-------	-----

HOUR (GMT)	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	1.9	.0	7.5	15.1	17.0	7.5	5.7	1.9	.0	.0	56.6	43.4	53
90360	2.1	.0	2.1	10.6	25.5	12.8	4,3	.0	.0	2.1	59.6	40.4	47
12615	1.5	.0	6.0	14.9	32.8	9.0	7,5	.0	1.5	.0	73.1	26.9	67
18621	1.6	1.6	9.8	9.8	29.5	8.2	6.6	.0	.0	.0	67.2	32.8	61
PCT	1.8	.4	15	12.7	26.8	9.2	6.1	.4	.4	.4	148	80 35.1	228

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	•0	.0	.0	3.1	30.8	66.2	65	00603	1.9	9.6	25.0	32.7	42.3	52
06609	.0	.0	1,5	4.5	33,3	60.6	66	06609	2.1	4.3	17.0	42.6	40.4	47
12615	3.8	1.3	2.5	8.8	23.8	60.0	80	12615	1.5	7.6	28.8	43.9	27.3	66
18621	1.2	.0	2.4	13.4	29.3	53.7	82	18621	1.6	13.1	29.5	37.7	32.8	61
TOT	. 4	1	, 5	23	85	175	293	TOT	1.8	20	58	39.4	79	226

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP TOTAL 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 085 FREQ 0-59 60-69 70-79 80-89 90-100
0 0 0 0 0 0 0
0 0 1.2 4 0
4 1.2 8.9 5.4 4.7
4 6.6 12.5 16.7 9.3
8 4.7 7.0 9.7 5.1
0 4 4 2.3 1.2
0 0 0 0 0 0 0 0
1 33 77 90 52
1.6 12.8 30.0 35.0 20.2 1 .4 4 1.6 53 20.6 117 45.5 70 27.2 11 4.3 1 .4 257 100.0 .4 .0.0.0.0

TABLE 14

	PERCE	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY T	EMP	
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
1.0	.4	.0	.0	.0	.0	.0	.2	.0	.0
4.2	1.0	.3	.9	.3	1.8	4.8	6.2	.0	1.2
8.4	1.6	2.5	1.5	3.0	5.8	10.2	10.6	.0	1.9
4.8	1.1	.0	1.7	7.6	4.7	3.7	3.8	.0	.0
.7	.5	.0	.0	. 8	.4	1.2	.4	.0	.4
.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.4	4.5	2.8	4.4	11.7	12.7	19.8	21.2	.0	3.5

TARLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR MAX 59 62 59 68 68 99% 95% 50% 5% 1% MIN MEAN TOTAL UBS 57 56 50 43 39 37 49.8 352 57 55 50 43 39 34 49.3 635 57 55 50 44 40 38 49.5 372 58 57 50 44 41 38 50.6 746 56 56 50 43 40 34 49.9 2105

	PERC	ENT FRE	GRENCA	OF RELA	TIVE H	UMIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60300	.0	1.6	14.8	34.4	31.1	18.0	80	61
90300	.0	5.3	19.3	22.8	29.8	22.8	80	57
12615	.0	.0	8.0	29.3	41.3	21.3	83	75
18821	.0	1.4	11.1	30.6	36.1	20.8	81	72
TOT	0	5	34	78	93	55	81	265

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1855-1977

TABLE 17

AREA 0026 GULF OF PEILAS 47.05 76.1W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

THP DIF	37	41	45	49 52	53	57	61	TOT	FDG	FOG
We tile	40	**	40	22	90	00	04		-00	-00
11/13	.0	.0	.0	. 8	.0	.0	.0	2	.0	.8
9/10	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.0	.0	.0	. 8	.4	3	.4	. 8
6	.0	.0	.0	.0	.4	.0	.0	1	:0	.4
5	.0	.0	.0	.0	.4	.4	.0	2	.0	.8 .8 1.9 3.8
4	.0	.0	.0	.0	1.5	. 8	.0	2	.4	1.9
3	.0	.0	.4	2.3	1.5	1.1	.0	10	.0	3.8
2	.0	.0	.4	2.3	3.1	1.1	.0	18	. 4	6.5
1	.0	. 4	.4	1.9	6.9	1.1	.0	28	.0	10.7
1 0	.0	. 8	1.5	3.8	5.3	. 8	.0	32	.0	12.2
-1	.0	.0	5.3	3.4	5.0	.0	.0	22	.0	8.4
-2	.4	. 4	5.3	9.9	2.3	.0	.0	48	.4	8.4
-3	.0	.4	2.3	4.2	1.9	.0	.0	23	.0	8.8
-4	.0	. 4	4.0	4.2	.0	.4	.0	25	.0	9.5
-5	.0	.0	1.1	3.8	.0	.0	.0	13	.0	5.0
-6	.0	. 8	2.7	1.1	.4	.0	.0	13	.4	4.6
-7/-8	.4	.4	1.5	1.1	.0	.0	.0	9	.0	3.4
-9/-10	.0	1.1	.4	.4	.0	.0	.0	5	. 4	1.5
-11/-13	.4	.0	54	.0	.0	.0	.0	1	• 4	255
TOTAL	3		54		75		2		7	255
		12		99		17		262		
PCT	1.1	4.6	20.6	37.8	28.6	6.5	. 8	100.0	2.7	97.3

PERIOD: (DVER-ALL) 1963-1977

TABLE 18

PCT FREG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) N 22-33 .0 1.1 .6 .6 .8 2.1 .0 .0 .0 .0 .0 .0 .0 34-47 HGT
<1
1-2
3-4
5-6
7
8-9
10-11
12
13-16
17-19
23-25
24-32
33-40
41-48
49-60
61-70
71-86
47-67
PCT 1-3 48+ 1-3 11-21 .0 .8 1.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 484 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 1-3 34-47 34-47 1-3

TABLE 18 (CONT)

				PC	T FREQ	DF WIND	SPEED	(KTS) AND D	IRECTION	VERSUS	SEA HEI	HTS (FT)			
				,							eu.				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1	-3 4-1	0 11-21	22-33	34-47	48+	PCT	
<1	.0	. 8	. 8	.0	.0	.0	1.5		.0	0 .0	0	.0	.0	.0	
1-2	.0	2.1	.6	.0	.0	.0	2.7		.0 1.		.0	.0	.0	1.0	
3-4	.0	. 8	. 8	.0	.0	.0	1,5		.0 1.			.0	.0	1.7	
5-6	.0	.6	.6	.6	.0	.0	1.7		.0 2.		2		.0	2.7	
7	. 0	. 8	.6	.0	.0	.0	1.3			8 1.7	.4	.0	.0	2.9	
8-9	.0	.0	.0	.0	.0	.0	.0			0 .6			.0	. 8	
10-11	.0	.0	. 8	.0	.0	.0	. 8			0 .6		.0	.0	1.0	
12	.0	.0	٠,	•0	.0	.0	.0			0 .0		. 0	.0	. 8	
13-16	.0	.0	.0	.0	.0	.0	.0			0 .0		.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0			0 .0		.0	.0	.0	
20-22	.0	.0	• 0	.0	.0	.0	.0			0 .0		.0	.0	. 8	
23-25	.0	.0	.0	.0	.0	.0	.0			0 .0		.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0					.8	.0	.8	
33-40	.0	.0	·n	.0	.0	.0	.0					.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0					.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			0 .0		.0	.0	.0	
71-86	.0	.0	.2	.0	.0	.0	.0			0 .0		:0	.0	.0	
87+	.0	.0	. ?	.0	.0	.0	.0			0 .0		.0	.0	.0	
TOT PCT	.0	5.0	4.0	.6	.0	.0	9.5		.0 5.	0 4.2		1.5	.0	12.4	
	• •	3.0	0	.0	••	.0	***			• •••				12.4	
				W							NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1	-3 4-1		22-33	34-47	48+	PCT	PCT
HGT <1	1-3	.6	11-21	22-33	34-47	48+	. 6		.8 .	0 .0	22-33	.0	.0	1.3	PCT
1-2	.0	1.1	.0	22-33			1.9		.0 1.	3 4.0	.0	.0	.0	1.3	PCT
<1	.0	1.1	.0 .8	22-33	.0	.0	1.9		0 1	3 4.0	22-33	:0	.0	1.3 5.3 2.5	PCT
1-2 3-4 5-6	.0	1.1 .6 3.4	.0 .8 .8	22-33	.0	.0	1.9 1.3 7.8		.0 1.	8 .0 4 1.0	22-33	.0	.0	1.3 5.3 2.5 1.3	PCT
1-2 3-4 5-6	.0	1.1 .6 3.4	.0 8 8 4.4 2.3	22-33 .0 .0 .0 .0	.0	.0	1.9 1.3 7.8 4.8		.0 1. .0 .0	6 .0 3 4.0 8 .0 4 1.0 2 1.5	22-33 .0 .0 1.7 .0	.0	.0	1.3 5.3 2.5 1.3 3.4	PCT
1-2 3-4 5-6 7 8-9	.0	1.1 .6 3.4 .6	.0 .8 4.4 2.3	22-33	.0	.0	1.9 1.3 7.8 4.8		.8 .0 1. .0 .0	3 4.0 8 .0 4 1.0 2 1.5	22-33 .0 .0 1.7 .0	.00	.0	1.3 5.3 2.5 1.3 3.4	PCT
<1 1-2 3-4 5-6 7 8-9 10-11	.0	1.1 .6 3.4 .6	.0 .8 4.4 2.3 .8	22-33 .0 .0 .0 .0 .0 1.9 .0 2.1	.0	.0	1.9 1.3 7.8 4.8		.8 .0 1. .0 .0	8 .0 4 1.0 2 1.5 0 .0	22-33 .0 .0 1.7 .0 1.7 .8 1.7	0000000	.0	1.3 5.3 2.5 1.3 3.4 .8	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12	.0	1.1 .6 3.4 .6	.0 .8 4.4 2.3 .8	22-33 .0 .0 .0 .0 1.9 .0 2.1	.0	.0	1.9 1.3 7.8 4.8 2.1		.8 .0 1. .0 .0 .0	6 .0 3 4.0 8 .0 4 1.0 2 1.5 0 .0	22-33 .0 .0 1.7 .0 1.7 .8 1.7	000000000000000000000000000000000000000	.0	1.3 5.3 2.5 1.3 3.4 .8 1.7	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16	.00	3.4 .6 .0	.0 .8 4.4 2.3 .6	22-33 .0 .0 .0 .0 1.9 .0 2.1	.0	.0	1.9 1.3 7.8 4.8 2.1		.8 .0 1. .0 .0 .0 .0	6 .0 3 4.0 8 .0 4 1.0 2 1.5 0 .0 0 .0	22-33 .0 .0 1.7 .0 1.7 .8 1.7	000000000000000000000000000000000000000	.00	1.3 5.3 2.5 1.3 3.4 .8 1.7	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19	.00	3.4 6.0 .0	.0 8 8 4.4 2.3 8 0 0	27-33 .0 .0 .0 .0 1.9 .0 2.1	.0	.0	1.9 1.3 7.8 4.8 2.1		8 0 1 0 0 0 0	6 .0 3 4.0 8 .0 4 1.0 2 1.5 0 .0 0 .0	22-33 .0 .0 1.7 .0 1.7 .8 1.7 .0	000000000000000000000000000000000000000	.0	1.3 5.3 2.5 1.3 3.4 .8 1.7	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22	.0	1.1 .6 3.4 .6 .0	8 4 4 4 2 3 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27-33 .0 .0 .0 .0 1.9 .0 2.1	.0	.0	1.9 1.3 7.8 4.8 2.1 0.6		0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 .0 3 4.0 8 .0 4 1.0 2 1.5 0 .0 0 .0 0 .0	22-33 .0 .0 1.7 .0 1.7 .8 1.7 .0 .0	000000000000000000000000000000000000000	.0	1.3 5.3 2.5 1.3 3.4 .8 1.7 .0	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25	000000000000000000000000000000000000000	3.4 .6 .0 .0	0 8 8 4 4 4 2 3 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22-33 .0 .0 .0 .0 .0 1.9 .0 2.1 .0 .6	.0	.0	1.9 1.3 7.8 4.8 2.1 .0 .0		.0 1.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	6 3 4 0 3 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22-33 .0 .0 1.7 .0 1.7 .0 .0 .0 .0	000000000000000000000000000000000000000	.00.00.00.00.00.00	1.3 5.3 2.5 1.3 3.4 .8 1.7 .0	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32	000000000000000000000000000000000000000	1.1 .6 3.4 .6 .0 .0 .0	0 8 8 4 4 3 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22-33 .0 .0 .0 .0 1.9 .0 2.1 .0 .6 .0	.00	.0	1 9 1 3 7 8 4 8 2 1 0 0 0		.0 1	6 3 4 0 3 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22-33 .0 .0 1.7 .0 1.7 .8 1.7 .0 .0 .0 .0	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	1.3 5.3 2.5 1.3 3.4 .8 1.7 .0 .0	PCT
1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40	000000000000000000000000000000000000000	1.1 .6 3.4 .6 .0 .0 .0	0 8 8 4 4 3 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22-33 .0 .0 .0 .0 1.9 .0 2.1 .0 .0 .0	.00	.00	1 9 1 3 7 8 4 8 2 1 0 0 0 0		0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 1.0 2 1.5 0 0 0 0 0 0 0 0 0 0 0 0	22-33 .0 .0 .1.7 .0 .0 .0 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	1.3 5.3 2.5 1.3 3.4 .8 1.7 .0 .0 .0	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 26-32 33-40 41-48		1.1 .6 .0 .0 .0 .0 .0 .0	0 8 8 4 2 8 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22-33 .0 .0 .0 .0 .0 1.9 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00	.00	1.9 1.3 7.8 4.8 2.1 .0 .0 .0		.0 1	6 3 4 6 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	1.3 5.3 2.5 1.3 3.4 1.7 .0 .0 .0	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60		.6 1.1 .6 3.4 .6 .0 .0 .0 .0 .0	0 8 8 4 4 3 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22-33 .0 .0 .0 .0 1.9 .0 2.1 .0 .0 .0 .0	.00	.00	1.9 1.3 7.8 4.8 2.1 0.0 0.0 0.0		0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22-33 .0 .0 1.7 .8 1.7 .0 .0 .0 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	1.3 5.3 2.5 1.3 8 1.7 .0 .0 .0 .0	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70		1.1 .6 3.4 .6 .0 .0 .0 .0 .0 .0 .0	.0 .8 .4 .4 .4 .2 .8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00		1,9 1,3 7,8 8,8 2,1 0,0 0,0 0,0 0,0		8 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	22-33 .0 .0 1.7 .0 1.7 .8 1.7 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	.00	1.3 5.3 2.5 1.3 3.4 .8 1.7 .0 .0 .0 .0	TOTAL PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 23-25 33-40 41-48 49-60 61-70 71-86		1.1 3.4 6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 8 4 4 4 2 3 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00		1 9 1 3 7 8 8 8 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		.0 .0	8 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22-33 .0 .0 .0 .1.7 .8 .1.7 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	1.3 5.3 2.5 1.3 3.4 8 1.7 0 0 0 0 0 0	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70		1.1 .6 3.4 .6 .0 .0 .0 .0 .0 .0 .0	.0 .8 .4 .4 .4 .2 .8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00		1,9 1,3 7,8 8,8 2,1 0,0 0,0 0,0 0,0		.0 .0	4 1 1 2 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2	22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	.00	1.3 5.3 2.5 1.3 3.4 .8 1.7 .0 .0 .0 .0	TOTAL PCT

	WIND	SPEED	(KTS)	٧S	SEA	HEIGHT	(FT)	
HGT	0-3	4-10	11-21	22	-33	34-47	48+	
<1	6.1	3.8	.8		.0	.0	.0	
1-2	- 0		8.4		-0	- 0	-0	

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.1	3.8	.8	.0	.0	.0	10.7	003
1-2	.0	13.7	8.4	.0	.0	.0	22.1	
3-4	.0	9.9	3.8	3.1	.0	.0	16.8	
5-6	.0	6,9	9.9	1.5	.0	.0	18.3	
7	.0	3,8	6.9			.0	15.3	
8-9	.0	.0	3.1	2.3	.0	.0	5.3	
10-11	.0	.0	1.5		.0	.0	7.6	
12	.0	.0	.0		. 8	.0	. 8	
13-16	.0	.0	.0	. 8	.0	.0	.8	
17-19	.0	.0	. 8		.0	.0	. 8	
20-22	.0	.0	.0		.0	.0	. 8	
23-25	.0	.0	.0		.0	.0	.0	
26-32	.0	.0	.0	.0	. 8	.0	. 8	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0		.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0		.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
-,-	• •	• •		•				131
TOT PCT	6.1	38,2	35.1	19.1	1.5	.0	100.0	

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	4.2	3.2	13.7	5.3	2.6	2.6	2.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	
6-7	.5	. 5	1.1	4.2	4.2	1.6	2.6	.0	. 3	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	32	8
8-9	.0	.0	.0	2.1	2.6	1.1	3.2	.5	.5	.0	.5	1.1	.0	.0	.0	.0	.0	.0	.0	22	10
10-11	.0	1.1	.0	1.6	1.1	4.7	1.1	.0	.0	1.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	21	9
12-13	.0	.0	.0	. 5	1.6	.0	1.6	1.6	1.1	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	15	12
>13	.0	.0	.0	.5	1.1	.5	.0	1.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	10
INDET	4.2	. 5	.0	.0	1.1	2.6	2.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
TOTAL	17	10	28	27	27	25	26	12	6	4	4	3	1	0	0	0	0	0 -	. 0	190	7
PCT	8.9	5.3	14.7	14.2	14.2	13.2	13.7	6.3	3.2	2.1	2.1	1.6	.5	.0	.0	.0	.0	.0	.0	100.0	

AREA 0026 GULF OF PEILAS 47.15 76.0W

PERCENT	FREQUENCY	DE WEA	THER DCCI	IRRENCE RY	WIND	DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG		OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY	
N	21.0	1.9	9.0	.0	.0	.0	.0	30.5	1.9	:0	3.8	.0	.0	.0	63.8
NE	19.7	8.5	5.1	.0	.0	.0	.0	32.5	3.4		1.7	.0	.0	.0	62.4
E	13.0	8.7	.0	.0	.0	.0	.0	21.7	.0	.0	17.4	• 0	.0	.0	60.9
SE	.0	.0	.0	.0	.0	.0	.0	.0	15.4	.0	.0	.0	.0	.0	84.6
S	9.6	.0	.0	.0	.0	.0	.0	9.6	6.1	.0	.0	.0	.0	.0	84.3
SW	1.6	.0	1.6	.0	.0	.0	.0	3.1	21.9	.0	1.6	.0	.0	.0	73.4
W	8.8	9.4	5.3	.0	.0	.0	.0	23.4	14.0	1.8	1.8	.0	.0	.0	59.1
NW	11.9	12.7	4.0	.0	.0	.0	.0	28.6	5.6	. 8	7.9	.0	.0	.0	57.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
TOT PCT	13.2	5.5	4.6	.0	.0	•0	.0	22.8	7.3	.5	3.2	•0	.0	.0	66.2

TARIE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615	13.7 13.6 15.7	3.9 6.8 2.0	7.8 5.1 .0	•0	.0	.0	.0	25.5 25.4 17.6	2.0 10.2 7.8	2.0	5.9 1.7 2.0	•0	.0		66.7 62.7 70.6
18621	14.3	7.9	4.8	.0	.0	•0	.0	25.4	7.9	.0	3.2	•0	.0	.0	63.5
TOT PCT TOT DBS:	14.3	5.4	4.5	.0	•0	•0	•0	23.7	7.1	.4	3.1	•0	.0	.0	65.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			ED (KN 22-33	0TS) 34-47	48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21
N NE	1.0	2.8	3.6	2.8	.9	:1		11.3	17.1	13.0	33,3	12.3	10.5	10.0	50.0	11.4	10.1
E	.4	1.8	1.0	.1		.0		3.4	9.7	3.8	.0		4.5	2.8	.0		3.5
SE	. 4	2.7	2.5	.6	. 1	.0		6.2	12.3	6.9	.0	4.6	5.1	7.0	.0	6.1	8.0
S	. 8	3.9	3.2	2.3	.8	. 2		11.1	16.4	10.9	.0	11.9	10.9	11.6	.0	10.5	11.4
SW	.4	3.9	6.4	4.9	1.7	. 6		17.9	20.0	14.8	.0	17.5	19.1	21.4	.0	16.6	19.3
W	.4	4.0	8.5	5.6	2.5	. 2		21.2	20.0	22.2	58.3	19.2	20.7	19.0	25.0	23.0	22.4
NW	.5	4.6	7.8	5.0		. 4		20.7	19.2	19.3	8.3	21.2	23.1	19.0	25.0	22.3	18.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	0	.0	.0
CALM	1.3							1.3	.0	1.6	.0		1.8	1.4	.0	1.0	. 5
TOT DBS	132	589	792	511	193	37	2254		17.7	370	3	363	328	369	4	500	317
TOT PCT	5.0	26.1		22.7	8.6	1.6		100.0		100.0	100.0	100-0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	0-6	WIND 7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL	PCT	MEAN	00	HDUI 06	12	18
						085	FREQ	SPD	03	09	15	21
N NE	2.6	3.2	3.1	2.1	.3		11.3	17.1	12.9	11.4	10.4	10.9
E	1.3	1.7	.4	.1	.0		3.4	9.7	3.8	4.3	2.8	2.9
S E	1.5	2.9	1.6	.2	.0		6.2	12.3	6.8	4.8	7.0	6.8
S	2.5	3.7	2.7	1.7	.5		11.1	16.4	10.9	11.4	11.5	10.8
SW	1.7	6.0	5,8	3.4	1.1		17.9	20.0	14.7	18.3	21.2	17.7
W	1.6	7.3	7,3	3.6	1.4		21.2	20.0	22.5	19.9	19.0	22.7
NW	2.5	7.0	6.7	3.2	1.4		20.7	19.2	19.2	22.1	19.1	20.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.6	1.7	1.3	.9
TOT DBS	379	767	657	344	107	2254		17.7	373	691	373	817
TOT PCT	16.8	34.0	29,1	15.3	4.7		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1873-1977

TABLE 4

AREA 0026 GULF OF PEILAS 47.15 76.0W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HUUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
60300	1.6	3.2	31.4	33.2	21.2	7.2	2.1	17.1	100.0	373
06409	1.7	4.8	24.3	37.5	21.9	8.5	1.3	17.6	100.0	691
12615	1.3	5.6	27.3	33.5	23.6	6.7	1.9	17.2	100.0	373
18621	.9	4.4	24.7	34.8	23.6	10.0	1.6	18.1	100.0	817
TOT	30	102	589	792	511	193	37	17.7		2254
PCT	1.3	4.5	26.1	35.1	22.7	8.6	1.6		100.0	

TABLE 5

....

P	CT FRE			LOUD A		EIGHTHS)							CEILIN					
WND DIR	0=2	3-4	5-7	8 6	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000	6500 7999	8000+	NH <5/8 ANY HGT	
N	.5	.6	4.7	12.9		7.2	1.4	.5	.9	5.0	3.1	2.4	1.7	.0	.0	1.3	2.4	
NE	2.0	.6	1.4	8.3		6.5	. 2	.2	. 3	3.1	2.2	1.3	1.9	.0	.0	.0	3.3	
E	1.5	.0	.0	1.1		3.7	.0	.0	.0	.5	.6	.0	.0	.0	.0	.0	1.3	
SE	. 2	. 8	.3	1.4		5.7	.0	.0	. 6	.6	. 2	.0	.0	.0	.2	.0	1.1	
•	3.6	3.0	4.1	3.1		4.4	.0	.0	.0	.9	2.2	1.3	1.3	.0	. 5	.0	7.7	
SW	.6	2.7	4.1	1.6		5,1	.0	.0	. 8	2.0	.3	.3	.6	.0	.0	.0		
u		1.7	11.3	9.3		6.5	1.3	.6	. 5	7.4	5.5	2.5	.6	.0	.0	.0	4.9	
NW	2.8	.0	4.2	8.2		6,3	1.6	.6	.6	2.4	3.5	1.7	1.4	.0	.0	.0		
VAR	.0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	
CALM	.0	.0	1.9			6.5	.0	.0	.0	.6	.6	.0	.6	.6	.0	.0	.0	
TOT OBS	19	15	51	74	159	6,1	• 7	3	6	36	29	15	13	1	1	2	46	159
TOT PCT	11.9	0.4	32.1	44.9	100.0		4.4	1.9	3.8	22.6	18.2	9.4	8.2	.6	.6	1.3	28.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF CEILING HEIGHT	OF SIMULTANEOUS DECURRENCE (NH >4/8) AND VSBY (NM)
	VSBY (NM)

					VSBY (NM	1)			
	CFILING	• DR	- DR	- DR	- OR	- OR	- OR	OR	= OR
	(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
	OR >6500	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
	DK >5000	1.3	1.9	1.9	2.5	2.5	2.5	2.5	2.5
	DR >3500	3.1	6.3	8.1	10.0	10.0	10.0	10.0	10.0
	DK >2000	8.1	14.4	17.5	19.4	19.4	19.4	19.4	19.4
	OR >1000	20.0	31.3	35.6	37.5	37.5	37.5	37.5	37.5
	DR >600	30.0	49.4	57.5	60.0	60.0	60.0	60.0	60.0
	DR >300	32.5	51.9	60.6	63.8	63.8	63.8	63.8	63.8
	DR >150	33.1	53.1	62.5	65.6	65.6	65.6	65.6	65.6
	DR > 0	33.8	54.4	66.3	69.4	70.0	70.0	70.0	70.0
Ī	TOTAL	54	87	100	111	112	112	112	112

TUTAL NUMBER OF DBS1 160

PCT FREQ NH <5/81 30.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD TOTAL DBS 7.7 2.4 6.5 7.7 4.8 7.7 9.5 13.7 37.5 2.4 168

PERIOD:	(PRIMARY)	1906-1977
	(DUES-ALL)	1972-1977

AREA 0026 GULF OF PEILAS 47,15 76.0W

219

ALL) 1	8/3-1977						7.	BLE 8					4
		P	ERCENT	FREQ PREC	OF WIN	D DIRE	CTION TH VAR	VS DCC	URRENC ALUES	E OR N	IBILIT	URRENC	E OF
VSBY		N	NE	E	SE	5	SW		NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	. 2	. 2	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT &	. 2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	PCP	:2	.2	.0	.0	.0	.0	.0	.5	.0	.0	.9	
1/2<1	NO PCP	.7	.0	.5	.0	.0	.0	.0	. 2	.0	.0	1.4	
	TOT \$.9	. 2	.5	.0	.0	.0	.0	.7	.0	.0	2.3	
	PCP	1.0	1.5	.2	.0	.0	.0	.0	.0	.0	.5	3.2	
142	NO PCP	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.5	
	TOT \$	1.0	1.5	. 2	.0	.0	.1	, 3	.0	.0	.5	3.7	
	PCP	3.1	1.3	.0	.0	. 9	.1	.8	1.6	.0	.0	7.8	
245	NO PCP	1.4	.0	.0	. 3	1.0	.0	.7	.7	.0	.0	4.1	
	TOT \$	4.5	1.3	.0	. 3	1.9	.1	1.5	2.3	.0	.0	11.9	
	PCP	2.5	1.3	.0	.0	.0	.0	2.1	1.5	.0	.0	7.3	
3410	NO PEP	3.2	1.7	.0	1.1	3.0	.2	3,9	3.3	.0	.9	17.4	
	TOT \$	5.7	3.0	.0	1.1	3.0	.2	5,9	4.8	.0	.9	24.7	
	PCP	.5	.1	.3	.0	.3	.1	1.7	.6	.0	.0	3.7	
10+	NO PCP	11.2	7.1	1.6	1.5	7.9	6.7	10.0	6.1	.0	1.4	53.4	
	TOT &	11.6	7.2	1.9	1.5	8.2	6.8	11.8	6.6	.0	1.4	57.1	

TOT DBS TOT PCT 24.0 13.4 2.6 3.0 13.1 7.3 19.5 14.4 .0 2.7 100.0

VSBY (NM)	SPO	N	NE	E	SE	S	SW		NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	000
(1/2	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.2	• 2	• 0	•0	.0	.0	.0	.0	.0	.0	.4	
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.5	.1	.4	.0	.0	.0	.0	.6	.0		1.7	
	11-21	.6	• 2	.0	• 0	.0	.0	.0	.0	.0		. 8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$	1.1	.3	.4		.0	.0	.0	.6	.0	.0	2.5	
	0-3	.2	.6	.0	.0	.0	.0	.0	.0	.0	.4	1.2	
1<2	4-10	.3	.7	.2	.0	.0	.0	.0	.0	.0		1.2	
	11-21	.4	•0	.0	•0	.0	.1	.3	.0	.0		. 8	
	42+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.9	1.3	• 2	•0	•0	.1	.3	.0	.0	.4	3.3	
	0-3	1.1	.4	.0	.0	.0	.0	.0	.5	.0	.0	2.1	
2<5	4-10	.0	• 4	• 0	• 1	.7	.0	.7	.1	.0		2.1	
	11-21	1.5	•1	•0	.2	1.0	.0	.3	.2	.0		3.3	
	22+	1.5	. • 2	.0	•0	.0	.1	. 3	1.2	.0		3.3	
	TOT %	4.0	1.1	•0	.3	1.8	. 1	1.3	2.1	.0	.0	10.8	
	0-3	.7	•0	.0	.4	.4	.0	.0	.1	.0	.8	2.5	
5<10	4-10	2.1	• 4	.0	.2	1.9	.0	. 4	.0	.0		5.0	
	11-21	7	. 9	.0	.4	.4	.1	2.2	1.9	.0		6.6	
	22+	1.7	1.3	•0	.0	.0	.1	2.8	2.8	.0		8.7	
	TOT %	5.2	2.7	•0	1.0	2.7	.2	5.4	4.8	.0	. 8	22.8	
10+	0-3	1.5	. 1	.4	.4	.0	0	.6	.3	.0	1.7	5.0	
10+	4-10	2.0	3.0	1.2	• 7	3.1	1.6	1.5	2.7	.0		15.8	
	11-21	4.7	2.7	•4	.6	4.7	3.2	6.7	3.5	.0		26.6	
	22+ TOT \$	2.9	1.3	.3	0		1.6	3.7	2.6	.0		12.9	
	1 1270	11.0	7.2	2.4	1.8	8.2	6.3	12.6	9.1	.0	1.7	60.2	
	TOT PET	22.5	12.9	3.0	3.1	12.7	6.7	19.6	16.6	.0		100.0	241

AREA 0026 GULF OF PEILAS 47.15 76.0W

PERCENT	FREQUENCY C	F CEILING	HEIGHTS (FEET, NH	>4/8)	AND
	DCCURP	ENCE OF NE	4 45/8 BY HOUR		

HOUR (GMT)	000	150	300 599	600	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/B	TOTAL
00603	3.0	.0	3.0	27.3	21.2	12.1	6.1	3.0	.0	.0	75.8	24.2	33
90360	5.9	.0	.0	20.6	20.6	.0	11.8	.0	2.9	.0	61.8	38.2	34
12615	2.4	2.4	7.3	24.4	17.1	14.6	4.9	.0	.0	2,4	75.6	24.4	41
18621	5.6	3.7	3.7	18.5	14.8	9.3	9.3	.0	.0	1.9	66.7	33.3	54
TOT	4.3	1.9	3.7	36	17.9	9.3	8.0	.0	.6	1,2	113	30.2	162

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(MM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 < 1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00403	1.8	1.8	5.5	14.5	23.6	52.7	55	00803	3.0	6.1	45.5	30.3	24.2	33
06609	.0	4.6	6.2	7.7	24.6	56.9	65	06609	6.1	6.1	36.4	27.3	36.4	33
12615	.0	3.7	.0	9.3	22.2	64.8	54	12615	2.4	12.2	39.0	36.6	24.4	41
18621	.0	1.4	2.8	12.5	19.4	63.9	72	18621	5.7	13.2	35.8	30.2	34.0	53
TOT	1	2.8	3.7	27	22.4	147	246	TOT	4.7	16	62 38.8	50 31.3	48 30.0	160

	PERCI	ENT FR	EQUENC	Y OF R	ELATIVE	HUMI	DITY B	Y TEMP	TOTAL	PCT		PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY TI	MP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	•0	.0	.0	.0	. 5	.0	1	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0
55/59	.0	.0	.0	.0	.5	1.5	2.6	1.0	11	5.7	1.7	. 8	:0	• 1	. 9	. 5	. 5	1.2	.0	.0
50/54	.0	.0	.0	. 5	3.1	8.8	12.4	6.2	60	30.9	7.5	6.2	1.4	. 1	3.0	1.9	5.3	5.5	.0	.0
45/49	.0	.0	.0		. 5	13.9	17.5	13.4	89		14.0	2.8	1.5	2.7	8.1	3.1	8.8	3.7	.0	1.0
40/44	.0	.0	.0		1.5	2.1	4.6	4.1	25	12.9	2.3	1.7	1.7	.6	2.7	1.3	.0	1.5	.0	1.0
35/39	.0	.0	.0		.0	. 5	2.1	1,5	8	4.1	1.5	.3	.0	.0	.0	. 1	. 8	.9	.0	.5
TOTAL	0	0	0		11	52	77	51	194	100.0										
PCT	.0	.0	.0		5.7	26.8	39.7	26.3			27.4	11.9	4.6	3.6	14.7	7.0	15.3	12.9	.0	2.6

				TAP	LF 15									TABLE	16			
	MEANS,	EXTREM	ES AND	PERCE	ITTLES	OF TEN	1P (DE	G F) 8	Y HOUR		PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	BY HOUR	t
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100		TOTAL
E0300	57	55	54	47	41	38	36	47.4	375	00803	.0	6.3	8.3	27.1	31.3	27.1	81	48
06609	58	55	54	47	40	36	36	47.2	689	90300	.0	.0	5.9	37.3	33.3	23.5	82	51
12615	64	55	54	47	40	38	36	47.1	372	12815	.0	.0	6.7	17.8	57.8	17.8	83	45
18621	60	55	54	48	41	39	35	48.0	793	18621	.0	.0	1.8	22.8	43.9	31.6	85	57
TOT	64	55	54	48	41	38	35	47.5	2229	TOT	0	3	11	53	83	51	83	201

MAY

PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1873-1977

TABLE 17

AREA 0026 GULF OF PEILAS

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45	49 52	53 56	57	61	TOT	FÖG	FOG
9/10	.0	.00	.0 1.7	1.1	1.7	.0	.6	1	:0	1.7 3.4 5.1 4.5 5.1 9.0
6	.0	.0	.0	.0	1.7	.0	.0	3	.0	1.7
5	.0	.0	1.7	1.1	.0	. 6	.0	6	.0	3.4
4	.0	.0	. 6	1.7	2.5	.6	.0	6 9	.0	5.1
3	.0	.0	.0	1.7	4.5	.0	.0	8	.0	4.5
2	.0	.0	1.1	1.7	1.7	.6	.0	8	.0	5.1
	.0	. 0	1.7	4.0	3.4	.0	.0	16	.0	9.0
ō	.0	.0	4.5	3.6	. 6	.0	.0	19	.6	10.2
-1 -2 -3 -4 -5	.6	.0	4.5	5.1	1.7	.0000	.0	21	.0	11.9
-2	.6	1.1	2.3	3.6	.0	.0	.0	17	.0	9.6
-3	.0	1.7	4.0		2.7	.0	.0	19	.0	10.7
-6	.0	1.1	5.1	2.3		.0	.0	16	.0	9.0
-5	.0	1.1	5.1	.6	.0	.0	.0	12	. 6	6.2
-6	.6		2.8	1.1	.0	.0	.0	- 6	.0	5.1
-7/-8	.0	1.7	2.0	.6	.0	.0	.0	9	.6	4,5
-9/-10				.0	.0	.0	.0	ž	.0	1.1
-4/-10	.0	.6	.0							4.2
-14/-16	.6	.0	.0	.0	.0	.0	.0	1	.0	174
TOTAL	4		65		32		1		3	174
		7.9		32.8		1.7		100.0		
PCT	2.3	7.9	34.7	32.8	18.1	1.7	. 6	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

								.,	4000 20						
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.3	.0	•0	.0	.0	5.3		.3	1.3	.0	.0	.0	.0	1.6
1-2	1.9	3.2	1.3	.0	.0	.0	6,5		1,3	3.2	.0	.0	.0	.0	4.5
3-4	1.3	1.3	.0	.0	.0	.0	5.6		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1,9	.0	.0	.0	1.9		.0	.0	1.6	.3	.0	.0	1.9
7	.0	.0	2,3	1.9	.0	.0	4,2		.0	.0	.0	.6	000000000000000000000000000000000000000	.0	.6
8-9	.0	.0	1.0	.0	.0	.0	1.0		.0	.0	1.6	1.3	••	.0	2.9
10-11	•0	.0	.0	1.3	.0	.0	1.3		.0	.0	.0	.0	.0	.0	.0
12	0	.0	.0	1.0	.0	.0	1.0		.0	.0	.0	.3	.0	.0	.3
13-16	1.3	.0	.0	.0	.0	.0	1.3		.0	.0	.0	.0		.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• •	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	••	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
26-32 33-40	•0	.0	.0	•0	.0	.0	.0		.0	:0	.0	.0	•0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• •	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
61-70		.0		.0			.0		.0	.0		.0	•0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	••	.0	.0
87+	.0		.0	.0	.0	.0			.0	.0	.0	.0	• 0	.0	
TOT PCT	5.5	5.8	6.5	4.2	.0	.0	22.1		1.6	4.5	3.2	2.6	.0	.0	12.0
TUT PCT	2.5	5.0	0,5	4.2	.0	•0	22,1		1.0	***	312	2.0			12.0
1190				E								SE			-
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3		1.3	.0	.0	.0	.0	.0	1.3
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.3	.0	.0	.0	.0	.3
3-4	.0	. C	.0	.0	.0	.0	.0		.0	.3	1.3	.0	.0	.0	1.6
5-6	.0	.0	.0	1.0	.0	.0	1.0		.0	.0	.3	.0	• • •	.0	.3
7 8-9	.0	.0	0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.3	.0	.0	.0	1.3		.0	:0	.0	.0		.0	.0
	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	• •	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	• 0	.0	.0
	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0			.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• •	.0	.0
23-25		.0	.0	.0	.0		.0		.0	:0			.0	.0	.0
26-32	.0		•0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0
33-40	•0	.0	.0	.0	.0		.0		.0	.0	.0		000000000000000000000000000000000000000	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	:0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	:0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	:0	.0	.0	:0	.0	:0		.0	:0	.0	.0	.0	.0	.0
87+	.0	:0	:0	.0	:0	.0	.0		.0	.0	.0	.0	• 0	.0	:0
TOT PCT		1.3		1.0	.0	.0	3,6		1.3	.6			.0	.0	3.6
TUT PUT	.0	1.0	1.3	1.0	,0	.0	,,0		1.5	.0	1.6	.0	.0	.0	3.0

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			-													
									MAY							
PERIOD:	(DVE	R-ALL)	1963-	1977									AREA	0026	GULF OF	PEILAS
			-					TABLE	18 (CON	T)				47	.15 76	.OW
				PC	T FREO	OF WIND	SPEED	(KTS)	AND DIR	ECTION	VERSUS	SEA HETO	SHTS (FT	,		
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.3	.0	.0	.0	.0	1,3		.0	1.3			.0	.0	1.3	
1-2	.0	3.6	2.6	.0	.0	.0	6.2		.0			.0	.0	.0	.3	
3-4	.0	1.0	3.7	.0	.0	.0	4.2		.0		2.3		.0	.0	2.6	
5-6	.0	.0	1.0	.0	.0	.0	1.0		.0	.1			.0	.0	1.9	
7	.0	.0	.0	.0	.0	.0	.0		.0	. (1.6		.0	.0	1.6	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	. (1.3	.0	.0	.0	1.3	
10-11	.0	. 0	1.0	.0	.0	.0	1.0		.0			.3	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0		.0			.0	.0	.0	.0	
13-16	.0	.0		.0	.0	.0	.0		.0				.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0			.0	1.3	.0	1.3	
20-22	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0			.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0			.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0			.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
49-60	.0	.0	. 0	.0	.0	.0	.0		.0			.0	.0	.0	.0	
61-70	.0	.0	. 0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
71-86	.0	0	.0	.0	.0	.0	.0		.0			.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	. 0	.0	.0	.0	.0	
TOT PCT	.0	5.8	7.8	.0	.0	.0	13.6		.0	1.9	6.8	1.0	1.3	.0	11.0	
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0						.0	.0	.0	101
1-2	.0	3.2	1.3	•0	.0	.0	4.5		.6				.0	.0	1.0	
3-4	.0	1.0	2.3	.0	.0	.0	3,2		.0				.0	.0	3.9	
5-6	.0	.0	.0	1.9	.0	.0	1.9		.0				.0	.0	1.6	
7	.0	.0	2.3	1.0	1,3	.0	4.5		.0				0	.0	6	
8-9	.0	1.3	.0	1.3	.0	.0	2,6		.0				.0	.0	.0	
10-11	.0	1.0	.0	1.0	.0	.0	1.0		.0				.0	.0	.0	
12	.0	.0	.0	1.3	.0	.0	1.3		.0				.0	.0	1.3	
13-16	.0	.0	1.0	1.3	.0	.0	2,3		.0				1.3	.0	1.6	
17-19	.0	.0	.0		.0	.0	.0		.0				1,3	.0	1.3	
20-22	.0	.0	.0	.0	.0	.0	.0		.0					.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
33-40	.0	.0		.0	.0	.0	.0		.0				.0	.0	.0	
41-48	.0	:0	.0	.0	.0	.0	. 0		.0				.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0				0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0				:0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0				:0	.0	.0	
TOT PCT	.0	5.5	6.8	7.8	1.3	.0	21.4		.6				2.6	.0	11.4	98.7
		,,,	0.0	7.0	1,3	.0	21.4		••	••	7.7	2.7	2,5	.0	11.4	70.7

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(77)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.8	7.7	.0	.0	.0	.0	11.5	003
1-2	3.8	14.1	5.1	.0	.0	.0		
3-4	1.3	3.8	12.8	.0	.0	.0	17.9	
5-6	.0	.0	6.4	5,1	.0	.0		
7	.0	.0	6.4	3,8	1.3	.0		
8-9	.0	1.3	5.1	2.6	.0	.0		
10-11	.0	.0	1.3	2.6	.0	.0		
12	.0	.0	.0	3.8		.0		
13-16	1.3	.0	1.3	1.3	1.3	.0		
17-19	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
-,-			••	•••			••	78
TOT PCT	10.3	26.9	38.5	19.2	5.1	.0	100.0	, ,

PERIO	0: (DV	ER-ALL)	195	2-197	,				TABLE	19											
					PERCENT	FRE	PUENCY	OF WA	VE HEI	GHT (F	T) VS	WAVE P	ERIOD	(SECON	0\$)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	19-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	4.2	7.6	3.4	2.5	5.9	1.7	. 8	.0	. 8	. 8	.0	.0	.0	.0	.0		.0	.0	.0	33	5
6-7	.0	.8	. 8	1.7	3.4	3.4	2.5	1.7	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	8
8-9	.0	.0	.0	1.7	8.4	4.2	3.4	.8	3.4	. 8	.0	.0	. 8	.0	.0	.0	.0	.0	.0	28	10
10-11	.0	4.2	.0	.0	. 8	2.5	1.7	. 8	2.5	. 8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	78	10
12-13	.0	.0	.0	.0	.8	.0	2.5	.0	. 8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	10
>13	.0	.0	.0	.0	.0	.0	.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	13
INDET	6.7	.0	.0	. 8	. 8	.0	.8	.0	.0	1.7	.8	.0	.0	.0	.0	.0	.0	.0	.0	14	6
TOTAL	13	15	5		24	14	15	4	12	5	3	0	1	0	0	0	0	0	0	119	8
PCT	10.9	12.6	4.2	6.7	20.2	11.8	12.6	3.4	10.1	4.2	2.5	.0	.8	.0	.0	.0	.0	.0	.0	100.0	

AREA 0026 GULF OF PEILAS 47.05 76.1W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

						02 70.									
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMUKE		
N	22.5	11.7	9.0	.0	.0	.0	.0	43.2	11.7	.0	.0	.0	.0	.0	45.0
NE	13.5	2.7	.0	.0	.0	.0	.0	16.2	5.4	.0	.0	.0	.0	.0	78.4
E	33.3	33.3	.0	.0	.0	.0	.0	66.7	.0	.0	.0	.0	.0	.0	33.3
SE	.0	.0	6.3	.0	.0	.0	.0	6.3	25.0	.0	.0	.0	.0	.0	68.8
S	16.7	.0	6.3	.0	.0	.0	.0	22.9	7.3	.0	.0	.0	.0	.0	69.8
SW	.0	.0	2.8	.0	.0	.0	.0	2.8	4.2	.0	.0	.0	.0	.0	93.1
W	.0	6.0	5.1	.0	.0	.0	6.8	17.9	14.5	.0	.0	3.4	.0		54.1
NW	19.8	0.3	9.9	.0	.0	.0	.0	36.0	1.8	.0	3.6	.0	.0	.0	58.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	12.6	5.6	6.3	.0	-0	.0	1.4	25.9	8.4	.0	.7	.7	.0	.0	64.3

TABLE 2

					P	KCENI	PKENUE	NC 1 UF WE	ATHER DECOR	MENCE	B1 HUU	•			
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	15.8 7.9 18.4 8.8	5.3 10.5 .0 5.9	2.6 10.5 7.9 5.9	.0	.0	.0	.0 2.6 5.9	23.7 28.9 28.9 26.5	2.6 10.5 13.2 5.9	.0	2.6	.0 2.6	.0	.0	73.7 57.9 55.3 67.6
TOT PCT TOT DES:	12.8	5.4	6.8	.0	.0	•0	2.0	27.0	8.1	.0	.7	•7	•0	.0	63.5

TABLE 3

				PERC	ENTAGE	FREQUE	NCY DF	WIND C	IRECTIO	N BY SPE	ED AN	8 Y H	DUR				
				ED (KN										(GMT)			
HND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	.5	2.7	4.9	3.7	2.2	.5		14.6	21.3	14.3	.0	16.3		14.6	.0	14.1	14.5
NE	.2	2.1	2.0		.6	. 1		6.0	16.9	5.7	50.0	5.7	6,5	5.4	.0	6.4	5.4
E	.2	1.4	1.1	.3	.2	.0		3.1	13.6	2.3	.0	3.4	3,8	3.6	.0	3.2	2.8
SE	. 2	1.9	2.0	1.3	.4	.1		6.0	17.2	6.8	.0	8.0	6,8	5,3	.0	4.5	5.2
5	.5	2.7	4.1	3.0	1.8	.1		12.2	19.3	13.2	25.0	10.7	11.6	12.8	33.3	11.8	12.5
SW	. 3	3.9	6.9	4.0	2.0	. 4		17.5	19.4	16.3	25.0	18.1	19.7	17.6	8.3	15.1	19.0
W	.4	4.2	6.8		1.7	. 7		18.3	19.6	16.7	.0	18.1	18.5	19.1	58.3	18.9	17.9
NW	.3	4.5	7.0	5.4	2.9	1.1		21.2	21.9	23.1	.0	18.8	17.7	19.7	.0	24.8	22.2
PAV	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0
CALM	1.3							1.3	.0	1.6	.0	. 9	1.4	1.9	.0	1.3	. 4
TOT UBS	73	445	661	439	224	56	1898		19.5	310	4	317	279	314	3	395	275
TOT PCT	3.8	23.4	34.8	23.1	11.8	3.0		100.0			100.0	100.0	100.0		100.0	100.0	100.0

TA	RI	2	۵

WND DIR	0-6	7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18 21
N NE	1.7	2.3	4.5	2.8	1.4		14.6	21.3	14.1	15.1	14.5	14.3
E SE	1.2	1.3	1,9	.7	.4		3.1	17.2	2.2	7.4	3.5	3.0
S	1.6	7.4	3.3	2.5	1.0		12.2	19.3	13.4	11.2	13.0	12.1
W	1.8	6.3	5,8	2.7	2.1		18.3	19.6	16.5	18.3	19.5	18.5
VAR	1.3	.0	.0	•0	.0		1.3	.0	1.6	1.2	1.9	.0
TOT DES	240	34.1	526	352	133	1898	100.0	19.5	314	596	317	671

PERIOD:	(PRIMARY)	1907-1977

TA	B	L	F	4

AREA 0026 GULF OF PEILAS 47.05 76.1W

PERCENTAGE	FREDUENCY	DF	WIND	SPEED	BY	HOUR	(GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
00603	1.6	4.1	22.3	33.1	27.7	9.6	1.6	18.9	100.0	314
06609	1.2	2.9	24.7	32.7	22.0	13.4	3.2		100.0	596
12615	1.9	1.0	22.1	36.9	24.3	9.8	3.5	19.4	100.0	317
18621	.9	2.1	23.5	36.5	21.5	12.4	3.1	19.6	100.0	671
TOT	24	49	445	661	439	224	56	19.5		1898
PCT	1.3	2.6	23.4	34.8	23.1	11.8	3.0		100.0	

TABLE 6

	PCT FRE			DIRFC		(EIGHTHS)							CEILIN NH <5/					
WND DIR	0-2	3-4	5-7	8 & 08500	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.0	.6	2.8	13.8		7.6	.6	.6	2.5	5.9	3.6	1.3	.0	0	.0	.0	2.5	
NE	.0	. 8	1.7	3.4		6,8	.2	.0	.0	. 2	3.4	. 2	.0	.0	.0	.0	1.9	
E	.0	. 8	. 8	.0		5.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	.0	1.7	
SE	. 8	.2	1.1	. 2		4.5	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	1.9	
S	1.7	2.3	5.5	7.6		6,2	.0	.0	. 8	5.3	6.1	. 8	.0	.0	.0	.0	4.0	
SW	1.7	1.1	4.4			6.1	.0	.0	.0	4.0	1.5	2.5	. 8	.0	.0	.0	3.6	
W	1.7	4.0	7.4	8.7		6.1	.6	.0	.0	6.6	4.4	1.7	1.9	.0	.0	.0	6.6	
NW	.0	1.1	4.2			7.5	1.1	1.9	. 8	4.7	8.9	1.1	. 0	.0	.0	.0	2.3	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	7	13	33	65	118	6.7	3	3	5	32	33	9	4	0	0	0	29	118
TOT PCT	5.9	11.0	28.0	55.1	100.0		2,5	2.5	4.2	27.1	28.0	7.6	3.4	.0	.0	.0		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

				VSBY (NM	1)			
CFILING	• DR	- OR	 OR 	• OR	• DR	 OR 	• DR	= DR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ NK >6500	.0	•0	.0	.0	.0	.0	.0	.0
■ NR >5000	.0	.0	.0	.0	.0	.0	.0	.0
- OR >3500	.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
■ UK >5000	6.7	9.2	9.2	9.2	9.2	9.2	9.2	9.2
- DR >1000	19.2	35.0	37.5	37.5	38.3	38.3	38.3	38.3
■ DR >600	30.0	54.2	61.7	63.3	65.8	65.8	65.8	65.8
■ OR >300	30.8	56.7	65.8	67.5	70.0	70.0	70.0	70.0
■ OR >150	30.8	57.5	68.3	70.0	72.5	72.5	72.5	72.5
- OK > U	30.8	58.3	70.0	72.5	75.0	75.0	75.0	75.0
TOTAL	37	70	84	87	90	90	90	90

TUTAL NUMBER OF OBS1 120 PCT FREQ NH <5/81 25.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	DBS
. 8	1.5	6,1	3,8	11.5	9.9	8.4	9.2	48.9	.0	131

PERIOD:	(PRIMARY)	1907-1977
	(OVER-ALL)	1870-1977

AREA 0026 GULF OF PEILAS 47,05 76.1W

143

ALL) 1	870-1977						TA	BLE 8					47
		P	ERCENT	PREC	DF WIN	D DIRE	CTION TH VAR	ATME A	URRENC	E DR N	IBILIT	URRENC	E OF
VSBY		N	NE	E	SE	5	SW	w	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOY \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
1/2<1	NO PCP	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	. 7	
	TOT *	.0	.0	•0	.0	1.4	.0	.0	.0	.0	.0	1.4	
	PCP	.0	.0	.0	.0	.0	.0	1.2	.2	.0	.0	1.4	
1<2	NO PCP	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
	TOT &	.0	.0	.0	.0	.7	.0	1.2	. 2	.0	.0	2.1	
	PCP	3.1	.0	.7	.2	1.2	.0	1.2	1.9	.0	.0	8.4	
2 < 5	NO PCP	2.3	.3	.0	.0	.0	.0	.0	. 2	.0	.0	2.8	
	TOT &	5.4	. 3	.7	.2	1.2	.0	1.2	2.1	.0	.0	11.2	
	PCP	4.7	. 2	.0	.0	1.4	.2	.5	4.9	.0	.0	11.9	
5<10	NO PCP	1.2	1.4	.0	. 9	3.1	1.9	3.5	6.1	.0	.0	18.2	
	TOT *	5.9	1.6	.0	.9	4.5	2.1	4.0	11.0	.0	.0	30.1	
	PCP	.5	9	.7	.0	.5	.2	.7	.0	.0	.0	3.5	
10+	NO PCP	7.5	3.7	. 7	1.7	8.4	10.3	13.3	6.1	.0	.0	51.7	
	TOT %	8.0	4.5	1.4	1.7	8.9	10.5	14.0	6.1	.0	.0	55.2	

TOT NBS
TOT PUT 19.4 6.5 2.1 2.8 16.8 12.6 20.5 19.4 .0 .0 100.0

	PFRCENT FRED OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY												
VSBY (NM)	SPD KTS	N	NE	ε	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1		.0	.0	.0	.0	.6	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.6	.0	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.4	.7	.0		1.2	
	TOT %	.0	•0	.0	.0	1.2	.0	.4	.7	.0	.0	2.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.6	.0	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.0	.0	.6	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.6	.4	.1	.0		1.2	
	TOT %	.0	•0	•0	.0	.6	.6	1.0	.1	.0	.0	2.3	
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.6	.0	.0	.0	.0	.0	.0	.0	.0		.6	
	11-21	2.3	.9	.0	.1	.4	.0	.6	.3	.0		4.7	
	22+	1.6	.0	.6	.0	.6	.0	.4	1.5	.0		4.7	
	TOT %	4.5	.9	.6	• 1	1.0	.0	1.0	1.7	.0	.0	9.9	
	0-3	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	1.2	
5<10	4-10	.4	.0	.6	.6	.0	1.7	1.0	2.0	.0		6.4	
	11-21	1.5	.6	.3	.3	2.2	.3	1.7	4.2	.0		11.0	
	22+	3.1	•7	.0	.1	1.6	.0	.9	2.9	.0		9.3	
	TOT \$	4.9	1.3	.9	1.0	4.4	2.0	3.6	9.2	.0	.6	27.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
10+	4-10	3.5	.6	.6	.7	4.4	1.9	1.7	2.9	.0		16.3	
	11-21	2.8	2.6	.6	.6	3.8	6.3	8.1	2.0	.0		26.7	
	22+	1.3	.6	.6	.7	1.6	1.2	3.5	4.5	.0		14.0	
	TOT \$	7.6	3.8	1.7	2.0	9.7	9.3	13.4	9.4	.0	.6	57.6	
	TOT 085												172
	TOT PET	17.0	6.0	3.2	3.2	16.9	11.9	19.5	21.2	.0	1.2	100.0	

PERIOD:	(PRIMARY)	1907-1977
	(DVER-ALL)	1870-1977

AREA 0026 GULF DF PEILAS 47,05 76.1W

PERCENT	FREQUENCY	OF	CEILING	HEIGHTS	I FEET, NH	>4/8) At	4D
	200						

HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	•0	3.7	3.7	25.9	37.0	7.4	3.7	.0	.0	.0	81.5	18,5	27
90300	6.9	.0	3.4	31.0	17.2	6.9	3.4	.0	.0	.0	69.0	31.0	29
12615	2 . 8	2.8	2.8	30.6	22.2	11.1	5.6	.0	.0	.0	77.8	22.2	36
18821	•0	3.2	6.5	19.4	38.7	3.2	.0	.0	.0	.0	71.0	29.0	31
TOT PCT	2.4	2.4	4.1	26.8	28.5	7.3	3.3	.0	.0	0	74.8	31 25,2	123

TABLE 11

TABLE 12

		PERCEN	T FREQUE	NCY VSB	Y (MM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	GES DF	VSBY (NM)	AND/OR
HOU	(R <1/	2 1/2<1	1<2	2<5	5<10	10+	TOTAL	HDUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
008	. 603	0 2.3	.0	9.1	31.8	56.8	44	00803	.0	11.5	34.6	46.2	19.2	26
066	.09	0.0	2.2	6.7	31,1	60.0	45	90300	6,9	10.3	41.4	27.6	31.0	29
126	15 .	4.8	2.4	11.9	31.0	50.0	42	12815	2,9	14.7	50.0	32,4	17.6	34
186	21 .	0 4.3	4.3	17.4	15,2	58.7	46	18821	.0	9.7	38.7	35,5	25.8	31
PC	T .	2.8	2.3	11.3	27.1	100 56.5	177	PCT	2,5	11.7	50 41.7	42 35,0	28	120

ABLE 13

					MOLE I	•				
	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY 8	Y TEMP		
									TOTAL	PCT
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ
55/59	.0	.0	.0	.0	.0	.0	2.3	.0	3	2.3
50/54	.0	.0	.0	.0	. 8	6.2	14.6		43	33.1
45/49	.0	.0	.0	1.5	3.8	12.3	10.8		50	38.5
40/44	.0	.0	.0	. 8	1.5	6.9	8.5	5,4	30	23.1
35/39	.0	.0	.0	.0	.0	.0	. 8	. 8	2	1.5
30/34	.0	.0	.0	.0	.0	.0	.0	1.5	2	1.5
TOTAL	0	0	0	3	8	33	48	38	130	100.0
PCT	.0	.0	.0	2.3	6.2	25.4	36.9	29.2		

TABLE 14

	PERC	ENT FR	EQUENC	YOF	IND DI	RECTIO	N BY T	EMP	
N	NE	Ε	SE	S	SW		NW	VAR	CALM
1.2	.0	.0	.0	1.9	•0	.6	.6	.0	.0
10.6	4.4	.0	.2	1.9	1.0	4.8	10.2	.0	.0
6.9	2.3	. 8	1.0	4.4	5.0	11.9	6.2	.0	.0
1.7	1.2	1.5	.4	7.9	4.6	4.6	1.2	.0	.0
.0	.0	.0	.0	1.3	.2	.0	.0	.0	.0
.0	.0	.0	.0	.8	. 8	.0	.0	.0	.0
20.4	7.9	2.3	1.5	16.3	11.5	21.9	18.1	.0	•0

TABLE 15

	MEANS,	EXTREMES	AND	PERCENT	ILES	OF TEMP	(DEC	F) 8	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00603	55	54	52	46	39	37	33	45.6	313
90300	59	53	51	46	39	36	33	45.4	591
12615	54	53	51	45	39	36	32	45.3	314
18821	55	54	52	46	40	38	37	45.9	664

	PERC	ENT FRE	GUENCA	OF RELA	TIVE H	YTIDIMU	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60300	.0	.0	11.1	19.4	33.3	36.1	85	36
06409	.0	.0	10.0	40.0	30.0	20.0	82	30
12615	.0	2.7	2.7	18.9	40.5	35.1	85	37
18621	.0	6.7	.0	26.7	46.7	20.0	82	30
TOT	0	3	8	34	50	38	84	133

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1870-1977

TABLE 17

AREA 0026 GULF OF PEILAS 47.05 76.1W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	40	41	45	49 52	53 56	TOT	FOG	FOG	
7/8	.0	.0	. 9	.0	.0	1 2	.0	.9	
•	.0	.0	. 9	. 9	.0	2	.0	1.8	
5	.0	.0	.0	.0	. 9	1	.0	.9	
4	.0	.0	.0	.9	1.8	3	.0	2.6	
3	.0	.0	.9	1.8	.9	4	.0	3.5	
2	.0	.0	1.8	4.4	1.8	9	.0	7.9	
ī	.0	.0	.0	3.5	2.6	1 3 4 9 7	.0	6.1	
-1	.0	. 9	2.6	4.4	.0	9	.0	7.9	
-1	.0	.9	1.8	6.1	.9	11	.0	9.6	
-2	.0	1.8	5.3	5.3	.0	14	.0	12.3	
-2 -3	.0	1.8	5.3	1.8	.0	10	.0	8.8	
-4	. 9	.0	0.1	.0	.0	. 8	.0	7.0	
-5	.0	4.4	7.0	1.8	.0	15	.0	13.2	
-6	1.8	4.4	.0	.0	.0	7	.9	5.3	
-7/-8	.0	5.3	1.8	.0	.0	8	.0	7.0	
-9/-10	.0	2.6	.9	.0	.0		.0	3.5	
-14/-16	.9	.0	.0	.0	.0	i	.0	. 9	
TOTAL			40	••	10	•	1	113	
ICIAL	-	25		35	••	114		***	
PCT	3.5		35.1	30.7	8.5	100.0	.9	99.1	

PERIOD: (DVER-ALL) 1963-1977

TABLE 18

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND	DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)			
HGT	1-3			N						1-3	4-10		. NE				
<1		4-10	11-21	22-33	34-47	48+	PCT				4-10	11-21	22-33	34-47	48+	PCT	
1-2	.0	3.8	.0	.0	.0	.0	1.5			.0	.0	.0	.0	.0	.0	.0	
3-4	.0		1.5	.0	.0	.0	5.3			.0	.0	0	.0	.0	.0	.0	
5-6	.0	1.1	.0	•0	.0	.0	1.1			.0	:0	3.4	.0	.0	.0	1.5	
7	.0	.0	2.3	.0	.0	.0	2,3			.0	.0		.0	.0		3.4	
8-9	.0		2.7	.0	0	.0	2.7				.0	.4	.0	.0	.0	.4	
10-11	.0	.0	.0	1.1	1.1	.0	2.3			.0	.0	.0	0		.0	4	
12	.0	.0	.0	1.5	.0	.0	1.3			.0	.0	.0	1.5	.0	.0	1.5	
13-16	.0	:0	.0	.0	.0	.0	, 0			.0	.0		.0	.0	.0	.0	
17-19	.0	.0	.0	1.1	.0	.0	1.1			.0	.0	.0	.0	.0		.0	
20-22	.0	:0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0	.0	
23-25	.0	.0	.0	•0	.0	.0	• 0			.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	• 0			.0	:0	.0	.0	:0	.0	.0	
33-40	.0	:0	.0	.0	.0	.0	0			.0	.0	.0	:0	:0	.0	.0	
41-48	.0	.0	.0	.0	.0		:0			.0	.0	.0	.0	:0	.0		
49-60	.0	.0	.0	.0	.0	.0	:0			.0	.0	.0	.0	:0	.0	.0	
61-70	.0	.0	.0	.0			• 0			.0	.0	.0	.0		.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	:0			.0	.0	.0	.0	:0	.0	.0	
TOT PCT	.0	6.4	6.4	3.8	1.1	.0	17.8			.0	.0	5.3	1.5	:4	.0	7.2	
			•••		•••					••			•••				
HGT	1-3	4-10	11-21	£ 22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
3-4	.0	1.5	.0	.0	.0	.0	1,5			.0	.0	.0	1.5	.0	.0	1.5	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
7	.0	.0	.0	1.5	.0	.0	1,5			.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	,0	.0	0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	ō			.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	- 0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	·ŏ	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	,0			.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.5			• •		2.0			-0	. 0	. 0	1.6	.0			

				_					JL	JNE							
PERIOD:	COVE	K-ALL)	1963-1	977				TABLE	10 /	CONT				AREA		GULF OF	PEILAS
								INDLE	10 (47,	.03 10	
				PC	T FREQ	DE MIND	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT)		
				5									22-33				
HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT			1-3	4-10			34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
1-2	.0	3.0	1.5	.0	.0	.0	4,5			.0	.0			.0	.0	.0	
3-4	.0	.0	1.5	1.5	.0	.0	3.0			.0	1.5			.0	.0	4.9	
5-6	.0	.0	2.7	3.0	.0	.0	5.7			.0	.0			.0	.0	3.8	
7	.0	.0	.0	• 0	.0	.0	.0			.0	1.5			.0	.0	3.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	3.0	
10-11	.0	.0	.0	•0	.0	.0	.0			.0	.0			. 0	.0	.0	
12	.0	.0	• 0	•0	.0	.0	.0			.0	.0			••	.0	.0	
17-19	.0	.0	.0	•0	.0	.0	.0			.0	.0			0	.0	.0	
20-22	.0	.0	0	.0	.0	.0	.0			.0	.0			• 0	.0	.0	
23-25	.0	.0	1.5	.0	.0	.0	1,5			.0	.0			.0	.0	.0	
26-32	.0	:0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
33-40	.0	.0	.0	.0	.0		.0			.0	.0			:0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
49-60	.0	:0	.0	.0	.0	.0	.0			.0	.0	.0		:0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0			• 0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	:0	.0	.0	
87+	.0	.0	.0	.0	:0	.0	.0			.0	.0			.0	.0	.0	
TOT PCT	.0	3.0	7.2	4.5	.0	.0	14.8			.0	3.0	10.2		:0	.0	14.8	
	••			***			• • • •			•				•		14.0	
				W									NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21		34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0			.0	.0			0	.0	.0	
1-2	.0	1.1	3.4	.0	.0	.0	4.5			.0	4.2	1.1			.0	5.3	
3-4	.0	1.1	1.1	.0	.0	.0	2.3			.0	. 8	1.5			.0	2.3	
5-6	.0	.0	2.3	1.1	.0	.0	3.4			.0	.0			.0	.0	2.7	
7	.0	.0	4.5	4.5	.0	.0	9.1			.0	.0	1.5			.0	3.0	
8-9	.0	.0	.0	2.3	.0	.0	2,3			.0	.0	.0		0	.0	1.1	
10-11	.0	.0	.0	1.5	.0	.0	1.5			.0	.0	.0	1.5		.0	1.5	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0		1.9	.0	.0	1.9	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			. 0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
87+	.0	.0	.0	•0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
TOT PCT	.0	2.3	11.4	9.5	.0	.0	23.1			.0	4.9	4.9	8.0	.0	.0	17.8	100.0

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	1.5	.0	.0	.0	.0	1.5	003
1-2	.0	12.1	7.6	.0	.0	.0	19.7	
3-4	.0	6,1	9.1	3.0	.0	.0	18.2	
5-6	.0	.0	13.6		.0	.0	21.2	
7	.0	1.5	10.6	7.6	.0	.0	19.7	
8-9	.0	.0	3.0		1.5		9.1	
10-11	.0	.0	.0	6.1	.0	.0	6.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	3.0	.0	.0	3.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	1.5	.0	.0	.0	1.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	. 0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
		••	••	••	• •		•••	66
TOT PCT	.0	21.2	45.5	31.8	1.5	-0	100.0	•••
			-3.3	21.0				

PERIOD	: (DV	ER-ALL)	195	1-1977					TABLE	19											
					PERCEN	T FRE	QUENCY	OF WAY	E HEI	GHT (F	7) VS	WAVE P	ERIGO	SECON	120						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.1	6.3	2.1	8.4	2.1	3.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
6-7	.0	.0	4.2	2.1	5.3	3.2		2.1	6.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	25	9
8-9	.0	.0	.0	1.1	5.3	1.1	4.2	8.4	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	10
10-11	.0	.0	.0	.0	3.2	2.1		6.3	.0	1.1		.0	.0	.0	.0	.0	.0	.0	.0	14	10
12-13	.0	.0	.0	1.1	.0	.0	1.1	1.1	1.1	.0		.0	.0	.0	.0	.0	.0	.0	.0		10
>13	.0	.0	.0	.0	1.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	
INDET	.0	.0	.0	.0	2.1	.0	.0	.0	1.1				.0	.0	.0	.0	.0	.0	.0	3	9
TOTAL	1	6	6	12	18	11	10	17	8	. 5	1	0	0	0	0	0	0	0	0	95	8
PCT	1.1	6.3	6.3	12.6	18.9	11.6	10.5	17.9	8.4	5.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

TABLE 1 PERCENT FREQUENCY OF MEATHER OCCURRENCE BY WIND DIRECTION

				RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG	SNOW	OTHER FRIN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST	THOR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	SIG WEA
N	20.2	2.0	8.9	.0	.0	.0	.0	31.0	16.7	:0	2.0	.0	.0	.0	50.2
NE	15.1	.0	6.8	.0	.0	.0	.0	21.9	19.2	.0	5.5	.0	.0	.0	53.4
E	.0	.0	8.3	.0	.0	.0	.0	8.3	6.3	.0	8.3	.0	.0	.0	77.1
SE	2.8	.0	.0	.0	.0	.0	.0	2.8	2.8	.0	.0	.0	.0	.0	94.4
S	9.5	5.4	.0	.0	.0	.0	.0	14.9	.0	.0	.0	.0	.0	.0	85.1
SW	.0	2.4	1.2	.0	4.7	.0	.0	8.2	4.7	.0	9.4	.0	1.2	.0	76.5
W	2.5	0.4	1.9	.0	.0		1.9	12.7	21.7	.0	.0	.0	1.9	.0	63.7
NW	7.3	4.9	3.0	.0	.0	.0		15.9	6.1	.0	4.9	.0	.0	.0	73.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	66.7
TOT PCT	8.9	3.3	4.2	.0	.5	.0	.5	17.4	11.7	.0	3.8	.0	.5	.0	66.7

TABLE 2

					,	EKCENT	PREGUE	NCT UP WE	ATHER OLCUR	KENLE	BY HUU	K			
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR	FOG WO PCPN	PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 16621	12.8 8.8 8.9 7.0	4.3 3.5 .0 5.3	6.4 1.8 3.6 5.3	.0	1.8	.0	.0 1.8	23.4 15.8 14.3 17.5	10.6 15.8 14.3 7.0	.0	1.8	.0	1.8	.0	61.7 66.7 69.6 66.7
TOT PCT TOT OBS:	9.2	3.2	4.1	•0	.5	•0	.5	17.5	12.0	.0	3.7	•0	.5	.0	66.4

TABLE

				PERC	ENTAGE	FREQUE	NCY DF	WIND C	IRECTIO	N BY SP	EED AN	D 84 H	DUR					
WND DIR	0-3	4-10	11-21	ED (KN) 22-33	34-47	48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HDUR 09	(GMT)	15	18	21	
N NE	.3	1.9	2.9	2.2	1.2	.8		11.2 5.3 4.5	22.9 16.2 12.8	12.4 5.8 4.6	16.7	11.7 5.3 5.3	10.0	10.2 6.3 4.8	.0	11.3	3.8	
SE S	.3	3.3	3.1	1.7	.1	.1		7.7 8.8 14.4	13.0 15.8 17.6	7.6 8.7 14.1	.0	7.7	7.3	8.3	.0	9.5	7.5	
S W	.3	4.5 5.0 4.0			1.7	.6		21.0	18.9	22.2	41.7	17.5 19.4 25.0	14.0 24.1 26.4	20.1		12.8 18.7 28.8	23.2 25.7	
CALM TOT OBS	1.4	549	755	567	183	.0 56	2196	1:4	18.6	1.1 352	.0	1.7 360	1.0 300	1.4 366	.0	1.6 488	1.2	
TOT PCT	3.9	25.0	34.4	25.8	8.3	2.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TA	BL	F	3	4

WND DIR	0-6	7-16	SPEED 17-27		41+	TOTAL DBS	PCT	MEAN SPD	00	HDU1 06 09	12 15	18
N NE	1.2	2.6	3.3	3.0	1.0		11.2	22.9	12.6	10.9	10.2	11.3
	1.0	2.3	1.0	.2			4.5	12.8	4.6	4.7	4.8	4.2
SE	1.2	4.5	1,4	.6	•		7.7	13.0	7.5	6.8	8.2	8.2
5	1.2	4.1	2.4	1.0	.2		8.8	15.8	8.7	7.8	11.2	8.7
SW	2.0	5.6	4.1	2.0	.7		14.4	17.6	13.9		14.0	13.5
	2.3	7.3	6.9	3.7	. 8		21.0	18.9	22.0		20.2	20.5
NM	1.9	6.9	8,5	6.5	2.0		25.7	22.3	23.7	25.6	23.9	27.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4		2000				1.4	.0	1.1	1.4	1.4	1.5
TOT DBS	291	776	636	383	110	2196		18.6	355	660	369	812
TOT PCT	13.3	35.3	29.0	17.4	5.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1854-1977

TABLE 4

AREA 0026 GULF OF PEILAS 47.15 76.3W

PERCENTAGE	EREQUENCY	OF	MIND	SPERO	RV	HOUSE	(CHT)

HOUR	CALM	1-3	4-10		SPEED (48+	MEAN	PCT	TOTAL
60300	1.1	2.5	26.8	32.1	27.9	7.3	2.3	18.7	100.0	355
90300	1.4	2.6	22.7	35.9	26.1	9.2	2.1	18.9	100.0	660
12415	1.4	3.0	28.5	35.2	23.8	5.7	2.4	17.3	100.0	369
18621	1.5	2.3	24.5	33.7	25.6	9.2	3.1	19.0	100.0	812
TOT	30	56	549	755	567	183	56	18.6		2196
PCT	1.4	2.6	25.0	34.4	25 8	8.3	2.6		100.0	-

P	PCT FREQ OF TOTAL CLOUD AMOUNT BY WIND DIRFCTION					AND OCCURRENCE OF													
WND DIR	0-2	3-4	5-7	08500	TOTAL	CLOUD COVER		000	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	5500 7999	8000+	NH <5/8	
N	2.4	2.0	3.5	13.7		6.6		1.6	1.4	1.2	1.7	9.0	.4	.5	.0	.0	.0	5.8	
NE	2.0	.5	1.0			5,2		.0	.0	1.4	. 1	1.2	.7	.0	.0	.5	.0	2.5	
E	2.1	. 4	1.3	2.5		5.1		. 5	.0	. 5	.0	.9	1.3	.0	.0	.0	.0	3.0	
SE	1.8	. 8	.8	1.2		4.4		. 1	.0	.0	.1	.5	.7	. 5	.0	.0	.0	2.6	
S	2.5	1.8	2.5	1.4		4.0		. 4	.0	.0	.9	1.6	. 5	.0	.0	.0	.0	4.8	
SW	2.1	1.7	4.8	2.5		5.2		. 5	.0	. 5	1.4	2.4	2.0	.0	.0	.0	. 5	3.8	
W	2.4	2.9	5.8	8.1		5,9		.0	1.3	.0	1.7	6.9	1.6	1.0	.0	.0	.0	6.5	
NW	2.6	4.6	6.4			5.5		.0	1.4	.0	1.3	5.2	2.4	. 5	.0	.5	.0	9.2	
VAR	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	•0	1.6		6,5		. 5	.0	. 5	.0	.0	.0	.0	.0	.0	.0	1.0	
TOT OBS	35	28	50	78	191	5.6		7	8	8	14	53	18	5	0	2	1	75	191
TOT PCT	18.3	16.7	26.2	40.5	100.0			3.7	4.2	4.2	7.3	27.7	9.4	2.6	.0	1.0	.5	39.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

				VSBY (NH)			
CEILING	- OR	 OR 	- DR	- DR	• OR	- OR	· DR	- DR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
7K >650	.5	1.0	1.6	1.6	1.6	1.6	1.6	1.6
OR >5000	.5	1.0	1.6	1.6	1.0	1.6	1.6	1.6
OR >3500	1.6	3.6	4.2	4.2	4.2	4.2	4.2	4.2
OK >2000	7.3	12.0	13.0	13.5	13.5	13.5	13.5	13.5
OR >1000	24.0	37.0	39.6	41.1	41.1	41.1	41.1	41.1
OR >600	28.6	44.3	46.9	48.4	48.4	48.4	48.4	48.4
OR >300	30.2	46.9	51.0	52.6	52.6	52.6	52.6	52.6
OR >150	30.7	49.5	54.7	56.8	56.8	56.8	56.8	56.8
OR > 0	31.3	51.0	56.8	58.9	59.9	60.4	60.4	60.4
TOTAL		98	109	113	115	116	116	116

TUTAL NUMBER OF OBS1 192 PCT FREQ NH 45/81 39.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

4.5 7.0 11.4 4.5 11.4 7.0 9.5 8.5 33.3 3.0 201

	٧	

									JULY							
PER 100:		907-1977 854-1977						TA	BLE 8				ARE		GULF	DF PEILAS
			P	ERCENT	PRECI	F WIND	DIRE	CTION TH VAR	VS DCC	URRENC	E OR N	IBILIT	URRENC Y	E DF		
	VSBY		N	NE	E	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL		
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	<1/2	NO PCP	.0	.0	. 5	.0	.0	.0	.0	.0	.0	.0	.5			
		TOT &	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5			
		PCP	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5			
	1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 5	.5			
		TOT %	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5			
		PCP	.5	.0	.0	.0	.0	.0	.0	. 5	.0	.0	.9			
	1<2	NO PCP	.5	.0	.4	. 1	.0	.0	.0	. 5	.0	.0	1.4			
		TOT &	.9	.0	::	:1	.0	•0	.0	. 9	.0	.0	2.4			
		PCP	1.9	1.1	.0	.0	.0	.0	.0	.8	.0	.0	3.8			
	2<5	NO PCP	. 8	. 1	.0	.0	.0	. 9	.4	.1	.0	.0	2.4			
		TOT \$	2.7	1.2	.0	.0	.0	.9	:2	.9	.0	.0	6.2			
		PCP	3.9	.2	. 5	.0	.0	.7	1.2	.6	.0	.0	7.1			
	5<10	NO PCP	4.1	1.4	.0	. 9	.0	1.5	5.8	4.6	.0	.0	18.5			
		TOT %	8.1	1.7	.5	. 9	.0	2.3	7.0	5.2	.0	.0	25.6			

PCP .7 .6 .0 .1 1.3 .1 1.2 1.2 .0 .0 5.2

10+ ND PCP 10.8 5.2 4.4 3.1 7.5 6.3 10.1 11.0 .0 .9 59.2

TOT % 11.5 5.8 4.4 3.2 8.8 6.4 11.3 12.2 .0 .9 64.5

TOT PCT 23.7 8.6 5.7 4.3 8.8 9.6 18.6 19.3 .0 1.4 100.0

TABLE

(SBY	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
, and	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	903
(1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		• 0	
	11-21	.0	.0	.4	.0	.0	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	• 0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		• 0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		• 0	
	22+	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4	
	TOT %	.4	•0	•0	•0	.0	.0	.0	.0	.0	.4	• 9	
	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1<2	4-10	.0	• 0	• 0	• 0	.0	.0	.0	.0	.0		• 0	
	11-21	- 4	.0	•0	.0	.0	.0	.0	.0	.0		• 4	
	22+	.4	•0	.3	.3	.2	.0	.0	.9	.0	•	2.1	
	TOT \$.9	•0	.3	.3	• 2	.4	.0	.9	.0	.0	3.0	
	0-3	.3	•0	• 0	.0	.0	.0	.0	-1	.0	.0	.4	
2<5	4-10	.4	.4	.0	.0	.0	.4	.3	.5	.0		2.1	
	11-21	.4	.0	• 0	.0	.0	.4	.0	.4	.0		1.3	
	22+	1.3	.6	•0	•0	.0	.0	.0	5	.0		2.1	
	TOT \$	2.5	1.1	•0	•0	.0	.9	.3	1.3	.0	.0	6.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
5<10	4-10	.7	.1	.0	.9	.0	.4	1.1	.6	.0		3.8	
	11-21	1.6	1.2	• 4	.0	.0	.7	3.1	1.1	.0		8.1	
	22+	4.9	.2	.0	.0	.0	.9	2.1	2.6	.0		10.7	
	TOT \$	7.3	1.5	.4	.9	•0	2.0	6.3	4.7	.0	.0	23.1	
	V-3	.4	.4	.4	.0	.0	. 4	.0	.0	.0	2.3	3.0	
10+	4-10	3.4	2.1	2.9	2.7	1.5	1.5	1.3	2.6	.0		17.9	
	11-21	3.4	2.1	1.5	.9	4.7	4.2	6.9	4.1	.0		27.8	
	22+	3.1	2.0	. 4	.4	3.0	1.8	2.8	4.4	.0		17.9	
	TOT \$	10.4	6.7	5.2	4.0	9.2	7.9	11.0	11.0	.0	1.3	66.7	
	nT 085					9.4	11.2	17.6	17.8				23

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JULY

PERIOD:	(PRIMARY)	1907-1977
	(DVER-ALL)	1854-1977

TABLE 10

AREA 0026 GULF OF PEILAS 76.3W

PERCENT	FREQUENCY	DE	CETI ING	MEIGHTS	I CEET. NH	34/81	AND
				HE . On . 3			-

HOL	IR (T)	149	150 299	300 599	999	1000	2000	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
006	:03	, 4.3	6.5	2.2	6.5	23.9	4.3	2.2	.0	2.2	.0	52.2	47.8	46
068	109	.0	2.0	4.1	6.1	34.7	12.2	2.0	.0	2.0	.0	63.3	36.7	49
126	15	4.1	4.1	6.1	8.2	20.4	12.2	2.0	.0	.0	.0	57.1	42.9	49
186	21	5.8	3.8	5.8	7.7	28.8	9.6	3.8	.0	.0	1.9	67.3	32.7	52
TO	T T	7	8	4.6	7.1	53 27.0	9.7	2.6	.0	1.0	.5	118	78 39.8	196

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(MM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00803	•0	.0	2.0	13.7	23,5	60.8	51	00203	4,5	13.6	29.5	27.3	43.2	44
90360	•0	.0	6.3	3.2	27.0	63.5	63	06809	.0	6.1	18.4	46.9	34.7	49
12615	.0	1.7	1.7	1.7	18,6	76.3	59	12615	4.2	14.6	25.0	31,3	43.8	48
18621	1.5	1.5	1.5	6.2	21.5	67.7	65	18621	5,9	13.7	25.5	41.2	33.3	51
TOT PCT	.4	. 8	2.9	14 5.9	22.7	160	238	TOT PCT	3.6	12.0	24.5	37.0	74 38.5	192

		1	8

				,	ABLE I	•									IABL	E 14				
	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY S	Y TEMP	TOTAL	PCT		PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	0
55/59 50/54	.0	.5			.0	1.0	.0	.0	3	1.5	.0	.1	.4	•0	•0	.5	.0	.5	.0	
	.0	.0	.0	.5	2.5	3.0	4.0	4.0	28	13.9	4.4	1.1	.5	.6	1.4	1.2	2.2	2.5	.0	
45/49	.0	.0	.5	.5	7.0	18.9	18.9	6.5	105	52.2	12.7	5.1	2.1	1.9	5.2	4.4	11.3	8.6	.0	
40/44	.0	.0	.0	1.0	3.5	7.5	8.5	6.0	53	26.4	3.6	1.2	2.2	1.4	4.1	4.4	3.4	5.6	.0	
35/39	.0	.0	.0	.0	.5	2.0	2.0	. 5	10	5.0	.0	.5	1.0	.5	.7	. 2	.9	.1	.0	
30/34	.0	.0	.0	.0	.0	.0	1.0	.0	2	1.0	.0	.1	.4	.0	.0	.5	.0	.0	.0	
TOTAL	0	1	1	4	27	65	69	34	201	100.0			100						0.0	
PCT	.0	.5	.5	2.0	13.4	32.3	34.3	16.9	-		20.6	8.2	6.6	4.4	11.4	11.2	17.8	17.3	.0	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HGUR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	59	52	50	45	39	34	33	44.7	352
90300	54	51	50	45	39	35	32	44.5	653
12815	58	52	50	45	38	35	34	44.6	365
18821	56	52	51	45	39	37	33	45.3	787
TOT	59	52	50	45	39	35	32	44.8	2157

	PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY T	EMP	
N	NE	E	SE	S	SW	×	NW	VAR	CALM
.0	.1	.4	.0	.0	.5	.0	. 5	.0	•0
4.4	1.1	:\$.6	1.4	1.2	2.2	2.5	.0	.0
12.7	5.1	2.1	1.9	5.2	4.4	11.3	8.6	.0	1.0
3.6	1.2	2.2	1.4	4.1	4.4	3.4	5.6	.0	.5
.0	. 5	1.0	.5	.7	. 2	.9	.1	.0	1.0
.0	.1	.4	.0	.0	.5	.0	.0	.0	.0
20.6	8.2	6.6	4.4	11.4	11.2	17.8	17.3	.0	2.5

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60300	.0	4.3	14.9	25.5	34.0	21.3	82	47
90300	.0	1.9	9.4	32.1	43.4	13.2	80	53
12615	.0	3.8	17.0	34.0	30.2	15.1	78	53
18621	.0	2.0	13.7	37.3	29.4	17.6	79	51
TOT	0	6	28	66	70	34	80	204

JULY

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1854-1977

TABLE 17

AREA 0026 GULF DF PEILAS 47.15 76.3W

PCT	FREQ	OF	AIR	TEMPERATURE	(DEG	F)	AND	THE	DCCURRENCE	OF	FOG	(WITHOUT	PRECIPITATION)
				WE ALL	D-CEA	TE	MDED	ATUR	DIFFERENCE		DEG I	= 1	

	M									
AIR-SEA THP DIF	33 36	37	41	45	49	53 56	57	TOT	FOG	FOG
THP DIF	>0	40		40	36	20	60			-50
9/10	.0	.0	.0	.5	.0	:0	.0	1	.0	.5
7/8	.0	.0	.0	.0	.0	. 5	.0	1	.0	:5
6	.0	.0	.0	.0	1.4	.0	.0	3	.0	1.4
5	.0	.0	.0	.5	. 5	.0	.0	2	.0	1.0
4	.0	.0	.0	1.0	.5	.5	.0	4	.0	1.9
3	.0	.0	.0	.5	2.9	. 5	.0	8	.0	3.9
2	.0	.0	. 5	. 5	3.9	. 5	.0	11	1.4	3.9
1	.0	.0	.0	1.9	2.9	.0	.0	10	.0	4.8
0	.0	.0	1.0	2.9	4.8	.0	. 5	19	.5	8.7
-1	.0	.0	1.0	4.3	5.3	.0	.0	22	.0	10.6
-2	.0	.0	1.4	6.3	1.0	.0	.0	18	.0	8.7
-3	.0	.5	2.9	5.8	1.0	.0	.0	21	.0	10.1
-4	.0	.0	3.9	6.3	1.0	.0	.0	23	.0	11.1
-5	.0	.0	3.4	4.8	1.0	.0	.0	19	.5	8.7
-6	.0	1.0	3.9	.5	.5	.0	.0	12	.0	5.8
-7/-8	.5	1.0	4.8	2.9	.0	.0	.0	19	.5	8.7
-9/-10	.0	1.0	1.9	.0	.0	.0	.0	6	.5	2.4
-11/-13	.0	2.4	1.0	.0	.0	.0	.0	7	.5	2.9
-14/-10	.5	.0	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	.5		53		55		1		8	199
_		12		80		4		207		
PCT	1.0	5.8	25.6	38.6	26.6	1.9	. 5	100.0	3.9	96.1

PERIOD: (DVER-ALL) 1963-1977

2 0

				PC	T FREO D	F WIND	SPEED	(KTS)	AND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7		.0	.0	.0	.0	.0	.0	2.2
1-2	.0	2.7	.0	.0	.0	.0	2.7		.0	2.2	.0	.0	.0	.0	2.2
3-4	.0	.9	2.7	.0	.0	.0	3.6		.0	.9	.4	.0	.0	.0	1.3
5-6		.0	3.3	1.6	.0	.0	4.9		.0	.0	.0	1.1	.0	.0	1.1
7	.0	.0	.0	.7	.0	.0	.7		.0	.0	.0	1.1	.0	.0	1.1
8-9	.0	.9	.0	2.2	.7	.0	3.8		.0	.0	.0	.0	.0	.0	.2
10-11	.0	.0	.0	3.1	.0	.0	3.1		.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	1.6	.0	.0	1.6		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	.0	.0	.9		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.7		.0	.0	.0	.0	0	.0	.0
23-25	.0	.0	.0	.7	.0	.0	.7		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	0		.0	.0	.0	.0	0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.5	6.0	10.7	.7	.0	22.5		•0	3.1	.4	2.5	.2	.0	6.3
HGT	1-3	4-10	11-21	E 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.0	.0	.0	.0	.9		.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	1.8	.0	.0	.0	4.7		.0	2.0	.2	.0	. 0	.0	2.2
3-4	.0	.0	.9	.0	.0	.0	. 4		.0	2.9	.0	.0	.0	.0	2.9
5-6	.0	.9	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	•0	.0	.0	.0		.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.7		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.7	.0	.7		.0	.9	.0	.0	.0	.0	1.1
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0.	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	7.1
TOT PCT	.9	3.8	2.7	.0	.7	.0	8.0		.0	5.8	1.1	.0	.2	.0	7.1

									JULY							
PERIODE	(DVE	R-ALL)	1963-1	1977				TARLE	18 (CUNT)				AREA	47.		PEILAS
				PC	T FREQ I	DE WIND	SPEED		AND DIREC	T10N V	ERSUS S	EA HEIG	HTS (FT)			
				,								SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0		. 9	.0	.0	.0	.0	.0	. 9	
1-2	.0	.0	. 7	.0	.0	.0	.7		.0	2.7	.0	.0	.0	.0	2.7	
3-4	.0	1.6	. 9	.9	.0	.0	2.3		.0	1.8	1.6	.0	.0	.0	3.3	
5-6	.0	.0	3,6	. 9	.0	.0	4.5		.0	.0	1.8	.2	.0	.0	2.0	
7	.0	.0	.7	.0	.0	.0	.7		.0	.0	1.1	.0	.0	.0	1.1	
8-9	.0	.0	.0	.9	.0	.0	. 9		.0	.0	.0	.9	.0	.0	.9	
10-11	.0	.0	.0	.9	.0	.0	.9		.0	.0	.0	. 9	.0	.0	.9	
12	.0	.0	.0	.9	.0	.0	.9		.0	.0	.0	.9	.0000	.0	.9	
13-16	.0	.0	. 0	- 0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	• 0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	٠,	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	٠.	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	0		.0	.0	.0	.0	0	.0	.0	
דמד פנד	.0	1.6	5.8	4.5	.0	.0	11.8		.4	4.5	4.5	2.9	.0	.0	12.7	
				w								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	0	.0	.0	.0	.0	.0	.0		. 2	.0	.0	.0	.0	.0	.2	
1-2	.0	.9	. 1	.0	.0	.0	, 9		.0	.9	.9	.0	.0	.0	1.8	
3-4	.0	. 9	5.6	.9	.0	.0	7.4		.0	.0	1.3	.9	.0	.0	2.2	
5-6	.0	.7	2.7	1.6	.0	.0	4,9		.0	.2	.2	.0	.0	.0	.4	
7	.0	.0	. 9	.0	.0	.0	, 9		.0	.0	1.8	.9	.0	.0	2.7	
8-9	.0	.0	.0	.9	.0	.0	. 9		.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.7	.0	.0	7		.0	.0	.0	3.1	9	.0	3.1	
12	.0	.0	. 0	1.8	.0	.0	1.0		.0	.0	.0	1.1	.9	.0	2.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	ó	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	,0		.0	.0	.0	.2	.0	.0	. 2	
26-32	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0	
33-40	.0	.0	.0	• 0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	•0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	Ü		.0	.0	.0	.0	:0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	• 0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
874	.0	.0	.0	.0	.0	.0	17.4		.0	1.1	4.2	6.7	.0	.0	13.2	99.1
TOT PCT	.0	2.5	9.2	5.8	.0	.0										

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TUT
<1	3.6	.0	.0	.0	.0	.0	3.6	003
1-2	.0	14.3	3.6	.0	.0	.0	17.9	
3-4	.0	8.9	13.4	2.7	.0	.0	25.0	
5-6	.0	1.8	11.6	5.4	.0	.0	18.8	
7	.0	.0	5.4	2.7	.0	.0	8.0	
8-9	.0	.9	.0	5.4	.9	.0	7.1	
10-11	.0	.0	.0	8.9	.0	.0	8.9	
12	.0	. 9	.0	6.3	1.8	.0	8.9	
13-16	.0	.0	.0	.9	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.9	.0	.0	.9	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-85	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
					-		1000000	112
TOT PCT	3.6	26.8	33.9	33.0	2.7	.0	100.0	

PERIOD	; (DV	R-ALL	195	2-1977					TABLE	19											
					PERCEN	T FRE	DUENCY	DF WA	E HEI	GHT (F	T) VS	HAVE P	ERIDO	SECON	DS)						
SER IOD	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	.0	3.4	6.7	5.6	3.4	2.8	1.7	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	6
6-7	.0	.6	6.1	5.6	4.5	2.2	1.1	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	6
8-9	.0	.0	2.2	1.7	2.8	4.5	2.8	3.4	1.7	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	36	9
10-11	.0	.6	. 6	1.1	1.1	2.8	2.8	2.2	2.8	.0		.6	.0	.0	.0	.0	.0	.0	.0	37	13
12-13	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	3	18
>13	.0	.0	.0	.0	.6	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
INDET	2.8	.0	1.1	.0	.0	.0	.0	1.7	.6	.0		.0	.6	.0	.0	.0	.0	.0	.0	12	7
TOTAL	5	8	31	25	22	22	15	21	13	1	12	2	2	0	0	0	0	0	0	179	8
PCT	2.8	4.5	17.3	14.0	12.3	12.3	8.4	11.7	7.3	.6	6.7	1.1	1.1	.0	.0	.0	.0	.0	.0	100.0	

0 0

TABLE 1

AREA 0026 GULF OF PEILAS 47.15 76.38

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	TYPE					OTHER	HEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	FREN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N NE	21.1	4.8	9.5	.0	.0	.0	.0	35.4	20.4	1.4	8.2	.0	.0		34.7
NE	23.6	.0	9.1	.0	.0	.0	.0	32.7	12.7	.0	.0	.0	.0	.0	54.5
E	11.8	.0	.0	.0	.0	.0	.0	11.8	11.8	.0	.0	.0	.0		76.5
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
S	.0	.0	6.0	.0	.0	.0	.0	6.0	19.4	.0	.0	.0	.0		74.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	16.1	1.1	.0	.0	.0		82.8
W	10.2	11.7	.0	.0	.0	.0	2.2	24.1	35.0	2.2	2.9	.0	.0	.0	35.8
NW	9.4	6.0	6.0	.0	.0	.0	3.4	24.8	10.1	1.3	.0	• 0	.0	.0	63.8
VAR	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0		50.0
TOT PCT	10.4	4.4	4.4	.0	.0	•0	1.1	20.3	18.7	1.1	2.2	•0	.0	.0	57.7

TABLE 2

					PE	ERCENT	FREQUE	NCY OF WE	ATHER OCCUR	RENCE	BY HOU	R			
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (TMD)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00603 06609 12615 18621	10.2 11.1 10.6 8.5	4.1 2.2 8.5 2.1	.0 4.4 2.1 10.6	•0	.0	.0	2.2 .0 2.1	14.3 20.0 21.3 23.4	28.6 22.2 21.3 12.8	2.0	.0 2.1 6.4	•0	.0	.0	55.1 57.8 55.3 55.3
TOT PCT TOT OBS:	10.1	4.3	4.3	•0	•0	•0	1.1	19.7	21.3	1.1	2.1	.0	•0	.0	55.9

TABLE 3

				PERC	MIAUE	PKEQUE	NCY UP	MIND P	IKECTIO	M BA 25	EEU ANI) BY H	UUR					
WND DIR	0-3	4-10	11-21	22-33 ED (KN)	34-47	48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HDUR 09	(GMT)	15	18	21	
N NE	.5	2.7	4.3	3.0	2.5	.9		13.8	22.7	13.5	.0	11.4		15.6	50.0	16.4	13.7	
E SE	.2	2.1	1.1		.0	.0		3.7	10.0	5.6	.0	3.8	3,2		15.0		3.5	
S	.5	3.1	3.6	1.1	2.1	. 3		8.8	15.8	7.9	.0	8.5	10.1	10.1	.0	8.0	8.7	
W	.3	3.3	6.4	5,6	4,5	1.0		19.1	22.3	17.8	33.3	20.8	22.2	17.2	20.0	20.0	16.2	
VAR	.0	.0	.0		.0	0		.0	.0	.0	.0	.0	.0	.0	10.0	.0	26.9	
TOT OBS	112	562			342	91	2542		20.4	423	.0	398	343	415	.0	604	351	
TOT PCT	4.4	22.1	33.4	23.0	13.5	3.6		100.0		100.0	100.0	100.0	100.0	100,0	100.0	100.0	100.0	

					TAB	LE 3A						
WND DIR	0=6	7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00	HDUF 06 09	12 15	18 21
NE E SE SW W	1.6 1.1 1.2 1.6 1.6 1.5 1.5	3.6 1.7 2.0 2.5 3.8 5.5 4.7 5.9	3.6 1.3 .5 1.7 2.1 4.8 6.8 8.4	3.5 .6 .5 .9 3.6 4.4 6.5	1.6		13.8 5.1 3.7 6.2 8.8 16.8 19.1 25.2	22.7 17.3 10.0 13.5 15.8 21.2 22.3 23.5	13.4 5.1 4.7 5.5 7.9 17.7 18.2 26.6	10.8 5.4 3.5 5.6 9.2 16.9 21.5 25.6	16.0 5.3 3.8 7.3 10.0 17.7 17.2	15.4 4.7 3.2 6.5 8.2 16.0 18.6 25.5
VAR CALM TOT OBS TOT PCT	1.3 328 12.9	755 29.7	738 29.0	508 20.0	.0 213 8.4	2542	1.3	20.4	426	1.3 741	.0 .7 420 100.0	1.7 955

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AUGUST

PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1867-1977

TABLE 4

AREA 0026 GULF OF PEILAS 47,15 76.3W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
60300	.9	3.3	23.2	30.8	23.5	16.0	2.3	20.5	100.0	426
90300	1.3	2.7	22.3	34.3	23.1	12.7	3.6	20.2	100.0	741
12615	. 7	3.3	23.1	36.4	21.0	12.1	3.3	19.7	100.0	420
18621	1.7	3.2	21.0	32.7	23,7	13.5	4.2	20.7	100.0	955
TUT	33	79	562	850	585	342	91	20.4		2542
PCT	1.3	3.1	22.1	33.4	23.0	13.5	3.6		100.0	

TABLE 6

P	CT FRE			LOUD A		(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN	G HEIG	HTS (F	T,NH :	4/8) JN	
WND DIR	0-2	3-4	5-7	8 & 085CD	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.7	.4	4.2	15.9		7.3	1.5	.0	1.6	6.2	5.5	1.8	1.5	.0	.0	.0	3.1	
NE	1.3	. 4	2.0	4.2		6.0	.0	.0	. 2	1.5	1.8	2.6	.0	.0	.0	.0	2.4	
E	.5	.0	1.5	1.5		6,6	.0	.0	.0	.7	.7	1.5	.0	.0	.0	.0	.5	
SE	3.1	1.5	2.2	.0		3,0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	5.3	
S	2.9	1.3	3.1	1.3		4,2	.0	.0	. 5	2.0	.7	.0	.0	.0	.0	.0	5.3	
SW	. 7	4.4	5.8	2.7		5,5	.0	.0	. 9	2.7	2.4	.7	.0	.0	.0	.0	6.9	
W	.7	5.2	6.6	5.1		5,5	1.3	.0	.7	2.6	3.1	1.8	. 7	.0	.0	.0	8.4	
NW	1.1	1.3	6.8			6.5	. 9	.0	1.8	1.8	7.7	1.8	.0	.0	.0	.0	3.8	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.7	. 7		7.5	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	
TOT OBS	16	21	45	55	137	5.9	5	0	8	24	33	15	3	0	0	0	49	137
TOT PCT	11.7	15.3	32.8	•	100.0	•••	3,6	.0	5,8	17.5	24.1	10.9	2.2	.0	.0	.0	35.8	100.0

UMUL	ATIVE	PCT FR	EQ OF	SIMULTANE	OUS DCC	URRENCE
DF	CEILI	NG HEIG	HT (NH	34/8) AN	D VSBY	(NM)

					VSBY (NM)			
CF	ILING	• DR	- DR	- DR	- DR	• DR	• DR	• DR	= OR
	EET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
nR	>6500	.0	.0	.0	.0	.0	.0	.0	.0
nR	>5000	.0	.0	.0	.0	.0	.0	.0	.0
	>3500	.0	1.4	1.4	2.1	2.1	2.1	2.1	2.1
	>2000	6.4	11.3	12.1	12.8	12.8	12.8	12.8	12.8
	>1000	17.0	32.6	37.6	38.3	38.3	38.3	38.3	38.3
	>600	21.3	42.6	51.8	53.9	55.3	55.3	55.3	55.3
	>300	23.4	46.1	57.4	59.6	61.0	61.0	61.0	61.0
	>150	24.1	46.8	58.2	60.3	61.7	61.7	61.7	61.7
	> 0	24.1	47.5	60.3	63.8	65.2	65.2	65.2	65.2
	TOTAL	34	67	85	90	92	92	92	92

TOTAL NUMBER OF UBSI 141 PCT FREO NH C5/81 34.8

TABLE 74

PERCENTAGE FREQ UF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 08SCD 08S 4.2 4.2 7.3 6.7 9.7 7.9 10.3 16.4 30.9 2.4 165

Δ	u	u	5	Ŧ

								AU	GUST							
PERIOD:	(PRIMARY) (OVER-ALL)	1906=1977 1867-1977						TA	BLE 8				ARE	4 0026	GULF	76.3W
			P	ERCENT	PREC	OF WIN	D DIRE	CTION TH VAR	YS DCC	URRENC ALUES	E OR N	IBILIT	URRENC	E DF		
	VSBY (NM)		N	NE	E	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL		
	<1/2	PCP ND PCP TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	1/2<	PCP NO PCP TOT %	1.1 1.5	.0	.0	.0	.0	.0	.0	.1 .0 .1	.0	•0	1.1 1.7			
	1<2	PCP NO PCP TOT &	1.1 .0 1.1	.0	.0	.0	.0	.0	1.0	.1 .6 .7	.0	.0	2.2 1.1 3.3			
	2<5	PCP ND PCP TOT \$	2.9 2.6 5.5	.6 .8 1.4	.6	.0	.0	.0 .7 .7	1,2	3.2 1.8 5.0	.0	.0	7.7 6.6 14.4			
	5<10	PCP NO PCP TOT %	1.5	1.7 1.1 2.8	.0	.6	2.1	1.7 1.7	2.1 6.4 8.4	.8 6.4 7.2	.0	.0	6.6 22.1 28.7			
	10+	PCP ND PCP TOT \$	1.2 5.4 6.6	3.2 3.5	4.1 4.1	4.7 4.7	6.6	10.5 10.5	6.8 7,3	.7 6.8 7.5	.0	1.1 1.1	2.8 49.2 51.9			

TOT DBS 181 TOT PCT 20.3 7.6 4.7 5.2 9.3 12.8 18.5 20.4 .0 1.1 100.0

TABLE 9

				PERCEN	T FREQ	DF WI	ND DIR	ECTION	I VS WI	ND SPE	ED		
VSBY (NM)	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	,0	.0	.0		.0	
	425	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	•0	•0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	•0	.0	.0	.0	.0	.0	• 0	.0		.0	
	22+	1.4	.0	.0	.0	.0	.0	.0	. 8	.0		2.2	
	TOT \$	1.4	•0	.0	.0	.0	.0	.0	.8	.0	.0	2.2	
	0-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	. 9	.0	.0	.0	.0	.0	.4	.4	.0		1.8	
	22+	.4	.0	.0	.0	.0	.0	. 8	.6	.0		1.8	
	TOT \$	1.3	•0	.0	.0	.0	.0	1.7	1.0	.0	.0	4.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	. 8	.1	.0	.0	.0	.0	.0	.0	.0		.9	
	11-21	.9	1.3	.4	.0	.0	.1	.6	1.5	.0		4.9	
	22+	3.4	1.0	.0	.0	.0	.4	.9	4.0	.0		9.7	
	TOT %	5.1	2.4	. 4	.0	.0	.6	1.4	5.5	.0	.0	15.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	.0	.0	.4	.0	1.7	.6	.3	.6	.0		3.5	
	11-21	2.1	2.0	.4	. 9	1.3	.9	3.4	3.1	.0		14.2	
	22+	3.4	1.1	.0	.0	.0	.3	4.2	3.3	.0		12.4	
	TOT \$	5.5	3.1	.9	. 9	3.0	1.8	8.0	7.0	.0	.0	30.1	
	0-3	.4	.4	.0	.4	.4	.0	.0	.0	.0	.9	2.7	
10+	4-10	1.3	1.0	2.9	1.5	2.1	2.9	. 8	1.2	.0		13.7	
	11-21	2.8	2.1	2.1	1.4	2.4	5.4	4.2	5.6	.0		26.1	
	22+	1.0	.6	.0	.4	.3	.1	1.3	2.0	.0		5.8	
	TOT \$	5.5	4.1	5.0	3.9	5.3	8.4	6.3	8.8	.0	.9	48.2	
	TOT 085												226
	TOT PET	18.9	9.6	6.3	4.8	8.3	10.7	17.4	23.1	.0	.9	100.0	

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AUGUST

PERIOD:	(PRIMARY)	1906-1977
	(DVFR-ALL)	1867-1977

TABLE 10

AREA 0026 GULF DF PEILAS 47.15 76.3W

PERCENT	FREQUENCY D	F CE	ILING	HEIGHTS	(FEET, NH	>4/8)	AND
---------	-------------	------	-------	---------	-----------	-------	-----

	HOUR (GMT)	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
	60300	2.7	.0	5.4	16.2	32.4	.0	.0	.0	.0	.0	56.8	43.2	37
1	90360	5.7	.0	.0	11.4	22.9	8.6	2.9	.0	.0	.0	51.4	48.6	35
	12615	.0	.0	5.6	16.7	22.2	25.0	2.8	.0	.0	.0	72.2	27,8	36
	18221	5.4	2.7	10.8	21.6	21.6	8.1	2.7	.0	.0	.0	73.0	27.0	37
	PCT	3.4	.7	5.5	24 16.6	36	15	2.1	.0	.0	.0	92	53 36,6	145

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(NM)	BY HOUR		CUMULAT	THE PCT	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/DR
(GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8	TOTAL
00603	.0	.0	.0	12.3	38.6	49.1	57	00603	2.9	8.6	25.7	34.3	40.0	35
90360	.0	.0	3.7	18.5	27.8	50.0	54	90300	6.1	6.1	24.2	30,3	45.5	33
12615	.0	5.5	1,8	10.9	30.9	50.9	55	12615	.0	8.3	27.8	44.4	27.8	36
18621	.0	3.0	9,1	22.7	24.2	40.9	66	18821	5.4	21.6	51.4	21.6	27.0	37
PCT	.0	2.2	3,9	38	70 30.2	47.4	232 100.0	TOT	3,5	16	46 32.6	46 32.6	49 34.8	141

TARLE 13

	PERC	ENT FR	EQUENC	Y UF R	ELATIVE	I HUH I	DITY B	Y TEMP		
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	FREQ
55/59	.0	.0	.0	.0	.0	1.1	. 5	.0	3	1.6
50/54	.0	.0	.0	.0	1.1	2.7	4.9	2.7	21	11.4
45/49	.0	.0	.0	.0	4.3	14.7	12.0	16.8	88	47.8
40/44	.0	.0	.0	.0	4.3	7.6	9.8	13.0	64	34.8
35/39	.0	.0	•0	.0	.0	.0	1.1	3,3	8	4.3
TOTAL	0	0	0	0	18	48	52	66	184	
PCT	.0	.0	•0	.0	9.8	26.1	28 3	35.0	10-	100.0

TABLE 14

	PERCENT	FR	EQUENCY	OF N	IND DI	RECTIO	IN BY TI	EMP	
N	NE	E	SE	s	SW	H	NW	VAR	CALM
3.9	:0	.0	•0	. 4	2.4	1.1	1.4	.0	.0
10.9		.0	1.6	3.3	5.0	9.2	12.5	.0	.5
.4	.0	.0		.0	1.1	1.1	1.8	.0	.0
20.7	4.6 4	. 8	3.4	9.2	13.5	21.1	21.7	-0	1.1

TARLE 15

	MEANS,	EXTREME	S AND	PERCEN	ITTLES	OF TE	1P (DE	G F) B	Y HOUR
HOUR (GMT)	MAX	99%	95%	40%	5%	1%	MIN	MEAN	TOTAL
00603	57	52	50	45	40	37	36	44.7	425
06609	54	51	50	44	39	37	36	44.3	745
12615	54	52	50	44	38	36	34	44.2	421
18821	60	54	51	45	40	37	33	45.2	918
TOT	60	52	50	45	39	37	33	44.7	2509

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	YTIOIMU	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-69	90-100	MEAN	TOTAL
60300	.0	.0	8.3	25.0	31.3	35.4	85	48
12615	.0	.0	10.6	23.4	15.9	34.0	84	44
18821 TOT	.0	.0	9.8	27.5	29.4	33.3	83	190

AUGUST

PERIOD: (PRIMARY) 1906-1977 (DVER-ALL) 1867-1977

TABLE 17

AREA 0026 GULF OF PEILAS 47.15 76.3W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOD (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	33	37	41	45	49	53	TOT	W	WO
THP DIF	36	40	44	48	52	56		FOG	FOG
11/13	.0	.0	.0	.0	.0	.6	1	.0	.6
9/10	.0	.0	.0	.0	.0	1.2	1 2	. 6	.6
7/8	.0	.0	. 6	.0	.0	.0	1	.0	.6
6	.0	.0	.0	.0	.0	1.8	3	.0	1.8
5	.0	.0	.0	.6	.0	.0	1	.0	.6
4	.0	.0	.0	.6	1.2	.0	3	.0	1.8
3	.0	.0	.0	1.2	.6	.6	1 3 1 3	.6	1.8
2	.0	.0	1.2	5.3	7.1	.6	24	.0	7.1
1 0	.0	.0	.0	1.8	5.3	.0	12	.0	7.1
0	.0	.0	1.2	5.3	3.5	.0	17	.6	9.4
-1	.0	.0	1.2	7.1	. 6	.0	15	.6	8.2
-2	.0	.6	2.4	4.1	.0	.0	12	.0	7.1
-3	.0	. 6	4.7	5.3	.0	.0	18	.0	10.6
-4	.0	.0	3.5	5.9	.0	.0	16	.0	9.4
-5	.0	1.2	6.5	2.9	.0	.0	18	.0	10.6
-6	.0	1.2	6.5	.6	.0	.0	14	.0	8.2
-7/-8	.6	1.2	1.8	.6	.6	.0	8	.0	4.7
-9/-10	.0	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	1		50		32			4	166
_		9	-	70		8	170		
PCT	.6	5.3	20.4	41.2	18.8	4.7	100.0	2.4	97.6

PERIOD: (DVER-ALL) 1963-1977

ARIE 18

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE		-	-
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	1.0	.0	.0	.0	2,1		.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	2.7	.0	• 0	.0	.0	2.7		1.4	.0	1.4	.0	.0	.0	2.7
3-4	.0	.0	1.4	•0	.0	.0	1.4		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	4.1	4.5	.0	.0	8.6		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.7	.0	1.0	.0	3,8		.0	.0	1.4	.0	.3	.0	1.7
8-9	.0	.0	.0	1.0	.0	.0	1.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.0	1.4	1.4	.0	3,8		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0
13-16	.0	.0	.0	1.0	.0	.0	1.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	1.4	.0	1.4
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	1.4	.0	1.4
23-25	.0	.0	. 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	. 2	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	10.3	7.9	2.4	.0	24,3		1.4	1.4	2.7	.0	3.1	.0	8.6
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4		.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	1.4	.0	.0	.0	2.7		.0	.0	.0	.0	:0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	:0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0		:0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	:0	.0	.0
23-25	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0		.0
26-32		.0	.0		.0	.0	.0			.0	.0	.0	• 0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	•0		.0	:0	•0	.0	.0	.0	.0
41-48		:0		•0	.0		.0				.0	.0	:0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	•0		•0	.0		.0	.0		•0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0		.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	. • ?	•0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	1.4	.0	.0	.0	4.1		.0	.0	.0	.0	.0	.0	.0

	10:15								AUGU	ST							
PERIOD:	(UVE)	K-ALL)	1963-1	977				TABLE	18 (CONT				AREA	47.		PEILAS
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT			
				5									SW				
HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT			1-3	4-10			34-47	48+	PCT	
<1	1.4	.0	.0	.0	.0	.0	1.4			.0	1.4			.0	.0	1.4	
1-2	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	1.4	
3-4 5-6	.0	2.4	.0	.0	.0	.0	2.4			.0	.0	3.1		.0	.0	3.4	
7	.0	1.4	2.1	.0	.0	.0	3.4			.0	.0			.0	.0	1.7	
8-9	.0	1.4	2.1	•0			1.4			.0	.0			:0	.0	.7	
10-11	.0	.0	2.7	.0	.0	.0	2.7			.0	.3			••	.0	.0	
12	.0	.0		.0	.0	.0	.0			.0	.0			•0	-0	2.4	
13-16	.0	.0	:0	.0	.0	.0	.0			.0	.0				.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			• •	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			• 0	.0	:0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	:0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0				.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0			• 0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			:0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0			• 0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
87+	.0	.0	.0	.0	. ŏ	.0	. ^			.0	.0			.0	.0	.0	
TOT PCT	1.4	5.1	4.8	.0	.0	.0	11.3			.0	2.1			.0	.0	11.3	
				w									NW	-			TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10			34-47	48+	PCT	PCT
< 1	.0	.0	.0	.0	.0	.0	.0			.0	.3			.0	.0	.7	
1-2	.0	.0	.0	.0	.0	.0	.0			.0				.0	.0	.0	
3-4 5-6	.0	.0	5.5	1.0	0	.0	6.5			.0	.0			.0	.0	6.8	
7	.0	.0	1.0	.0	1.4	.0	2.4			.0	1.4	1.4		.0	.0	5.5	
8-9	.0	.0	.0	.0	.0	.0	.0			.0				:0	.0		
10-11		1.0	• ?	.0	.0	.0	4.1			.0	:			• •		.3	
12	.0	.0	2.1	1.0	.0	.0	.0			.0	:0			:0	.0	2.1	
13-16	.0	.0	.0	3.1	.0	.0	3,1			.0	:			1.4	.0	3.8	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	:				.0	.0	
20-22	.0	.0	.0	.0	.0	.0	ō			.0				1.4	.0	1.4	
23-25	.0	.0	.0	.0	.0	.0	.0			.0				1:0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0			.0	:			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0				.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	:			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	ō			.0	:			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.o			.0				.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0				0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0				0	.0	.0	
TOT PCT	.0	1.0	8.6	5.1	1.4	.0	16.1			.0	1.	14.4		2.7	.0	22.9	98.6

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.7	6.8	1.4	.0	.0	.0	10.8	003
1-2	1.4	4.1	4.1	.0	.0	.0	9.5	
3-4		2.7	16.2		.0	.0	20.3	
5-6	.0							
		.0	8.1	5.4	1.4	.0	14.9	
7	.0	2.7	10.8	.0	1.4		14.9	
8-9	.0	1.4	.0	1.4	.0	.0	2.7	
10-11	.0	1.4	9.5	2.7	1.4	.0	14.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	6.8	1.4	.0	8.1	
17-19	.0	.0	.0	.0	1.4	.0	1.4	
20-22	.0	.0	.0	.0	2.7	.0	2.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0		.0	.0	.0	.0	
			.0					
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								74
TOT PCT	4.1	18.9	50.0	17.6	9.5	.0	100.0	

PERIOD: (OVER-ALL) 1953-1977 PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS) 8-9 10-11 2.6 .9 2.6 .9 1.7 .9 .0 .9 .9 .0 .9 .0 11 10 9.6 8.7 87+ TOTAL
.0 29
.0 28
.0 23
.0 13
.0 4
.0 8
.0 10
.0 10 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 MEAN HGT 5 7 9 10 12 15 8 1.7 .0 .0 .0 .0 .0 .0 .0 .0 1-2 5.2 .0 .0 .0 .0 3-4 5.2 3.5 1.7 .0 .0 2.6 15 5-6 5.2 6.1 .9 .9 .0 1.7 .0 17 2.6 7.8 6.1 3.5 .0 .0 .0 23 20.0 2.6 3.5 3.5 2.6 .9 .0 16 .9 5.2 .9 .9 .0 .0 10 8.7 .0 1.7 .9 .0 .0 .9 .0 .0 .0 1.7 1.7 .0 .0.0 .00.00.000 .00000000 .0.0.0.0.0.0.0.0.0 .0.0.0.0 .000000000

AREA 0026 GULF OF PEILAS 47.25 76.58

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
N	12.8	2.1	12.8	.0	2.1	.0	.0	27.7	17.6	.0	.0	.0	.0	.0	54.8
NE	8.3	.0	5.6	.0	.0	.0	.0	13.9	44.4	.0	11.1	.0	.0	.0	30.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	8.7	.0	.0	.0	.0	.0	.0	8.7	.0	.0	8.7	.0	.0	.0	82.6
S	8.5	.0	4.3	.0	.0	.0	.0	12.8	.0	.0	4.3	.0	.0	.0	83.0
SW	.0	5.4	5.4	.0	.0	.0	.0	10.8	1.4	.0	.0	.0	.0	.0	87.6
W	6.3	.0	2.1	.0	.0	.0	.0	8.5	10.6	.0	.0	.0	.0	.0	81.0
NW	9.0	3.0	5.6	.0	.0	.0	.0	17.5	13.1	.0	3.0	.0	3.0		63.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	8.3	1.8	6.0	.0	.5	.0	.0	16.1	11.5	.0	2.3	•0	.9	.0	69.1

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			F	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00403 06609 12615 18621	7.3 8.2 11.8 6.0	3.9 3.0	7.3 8.2 5.9 1.5	.0	1.8	.0	.0	14.5 18.0 21.6 10.4	10.9 11.5 11.8 9.0	.0	1.6 2.0 6.0	.0	1.8 .0 .0	.0	72.7 68.9 64.7 73.1
TOT PCT	8.1	2.1	5.6	.0	.4	•0	•0	15.8	10.7	.0	2.6	•0	.9	.0	70.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			22-33		48+	TOTAL	PCT	MEAN SPD	00	03	06	HDUR 09	(GMT) 12	15	18	21	
N NE	.6	2.5	3.4	3.0	1.6	.6		11.8	21.0	11.4	.0	9.6		12.5	4.5	14.4	10.3	
F	.1	1.4	.5	.1	.0	.0		2.1	9.7	2.3	.0	1.3	3,4	1.8	.0	2.1	2.1	
SE	.2	2.3	2.4	.6	.2	.0		5.7	13.1	5.9	.0	5.3	5.4	6.6	.0	5.3		
S	.5	3.7	3.3	1.0	.4	.0		8.9	13.5	9.2	.0	10.0	7.9	11.0	6.8	7.3	8.6	
SW	.7	4.1	6.5	3,3	.9	. 2		15.7	16.9	14.9	.0	15.4	16.7	17.1	29.5	13.3	18.1	
W	.5	4.2	8.7	7.3	2.1	. 2		22.9	20.0	23.3	.0	24.1	24.6	20.4	15.9	21.9	24.5	
NW	.5	5.2	9.9	7.9	3.2	. 6		27.4	20.8	28.6	100.0	28.1		24.0	43.2	29.3	25.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0	.0	.0	.0		
CALM	1.9			-				1.9		1.4	.0	1.8	2.0	2.0	.0	2.5		
TOT OBS	116	553	793	524	190	40	2216		18.1	350	2	342	302	344	11	555	310	
TOT PCT	5.2	25.0	35. R	23.6	8.6	1.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WND DIR	0-6	WIND 7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00	96 09	12 15	18
N NE	1.7	2.9	3.7	2.3	1.1		11.8	21.0	11.4	10.2	12.3	12.9
	.7	1.2	.2	• *	.0		2.1	9.7	2.3	2.3	1.8	2.1
E SE	1.3	2.5	1.7	.2	.0		5.7	13.1	5.8	5.3	6.4	5.7
5	1.6	4.5	2.2	.4	. 2		8.9	13.5	9.2	9.0	10.9	7.8
SW	2.1	5.9	5,2	2.0	.5		15.7	16.9	14.8	16.0	17.5	15.0
W	1.5	6.5	9.7	4.5	. 8		22.9	20.0	23.2		20.3	22.9
NM	2.1	8.5	9.2	5.8	1.9		27.4	20.8	29.0	27.4	24.6	27.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9	7900	200000				1.9	.0	1.4	1.9	2.0	2.1
TOT OBS	303	742	726	346	99	2216		18.1	352	644	355	865
TAT DET	12 7	22 6	22 R	15.4	4.5		100 0		100.0	100.0	100 0	100.0

S				

PERIOD:								TABLE				AREA C	47.25	OF PEILAS
				PER	CENTAGE	FREQU	ENCY OF	MIND	SPEED BY	HOUR	(GMT)			
		HOUR	CALM	1-3	4-10					MEAN	PCT	TOTAL		
		00403	1.4	4.3	23.6							352		
		12615	2.0	4.8	27.0	35.2	20.0	8.	7 2.3	17.4	100.0	355		
		TOT	42	74	553	793	524	19	0 40	18.1		2216		
	PERIOD:	PERIOD: (PRIMARY) (OVER-ALL)	OVER-ALL) 1862-197 HOUR OOLO 3 OECO 12215 1821	OVER-ALL) 1862-1977 HOUR CALM OOLOG 1.4 OEGO 1.9 12215 2.0 18621 2.1 TUT 42	(DVER-ALL) 1862-1977 PERI HOUR CALM 1-3 Ooko9 1.4 4.3 Ooko9 1.9 3.9 12(15 2.0 4.6 18(21 2.1 2.0 TUT 42 74	OVER-ALL) 1862-1977 PERCENTAGE HOUR CALM 1-3 4-10 00a.03 1.4 4.3 23.6 066.09 1.9 3.9 23.6 126.15 2.0 4.8 27.0 18621 2.1 2.0 25.7 TUT 42 74 553	PERCENTAGE FREQUING CALM 1-3 4-10 11-21 OQLOS 1.4 4.3 23.6 35.8 OGEOP 1.9 3.9 23.6 39.1 12215 2.0 4.8 27.0 35.2 1821 2.1 2.0 25.7 33.5 TUT 42 74 553 793	PERIOD: (PRIMARY) 1906=1977 (OVER-ALL) 1862=1977 PERCENTAGE FREQUENCY OF HOUR CALM 1-3 4-10 11-21 22-33 OOA3 1.4 4.3 23.6 35.8 25.0 OO609 1.9 3.9 23.6 39.1 22.4 12615 2.0 4.8 27.0 35.2 20.0 18621 2.1 2.0 25.7 33.5 25.5 TUT 42 74 553 793 55.5	PERIOD: (PRIMARY) 1906-1977 TABLE PERCENTAGE FREQUENCY OF WIND: WIND SPEED (KNOTS HOUR CALM 1-3 4-10 11-21 22-33 34-4 0040 1.4 4.3 23.6 35.8 25.0 8. 06609 1.9 3.9 23.6 39.1 22.4 7. 12615 2.0 4.8 27.0 35.2 20.0 8. 18621 2.1 2.0 25.7 33.5 25.5 9. TUT 42 74 553 743 524 19	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR CALM 1-3 4-10 11-21 22-33 34-47 48+ 004.03 1.4 4.3 23.6 35.8 25.0 8.2 1.7 064.09 1.9 3.9 23.6 39.1 22.4 7.6 1.6 124.15 2.0 4.8 27.0 35.2 20.0 8.7 2.3 182.1 2.1 2.0 25.7 33.5 25.5 9.4 1.8 TUT 42 74 553 793 524 190 40	PERIOD: (PRIMARY) 1906=1977 TABLE 4 PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR HOUR CALM 1-3 4-10 11-21 22-33 34-47 48+ MEAN OO403 1.4 4.3 23.6 35.8 25.0 8.2 1.7 18.2 06609 1.9 3.9 23.6 39.1 22.4 7.6 1.6 17.6 12.6 12.1 22.1 22.1 17.4 18.2 12.1 12.1 12.1 12.1 12.1 12.1 12.1	PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1862-1977 PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT) HOUR CALM 1-3 4-10 11-21 22-33 34-47 48+ MEAN FREQ 004.03 1.4 4.3 23.6 39.1 22.4 7.6 1.6 17.0 100.0 064.09 1.9 3.9 23.6 39.1 22.4 7.6 1.6 17.0 100.0 126.15 2.0 4.8 27.0 35.2 20.0 8.7 2.3 17.4 100.0 186.21 2.1 2.0 25.7 33.5 25.5 9.4 1.8 18.7 100.0 186.21 2.1 2.0 25.7 33.5 25.5 9.4 1.8 18.7 100.0	PERIOD: (PRIMARY) 1906-1977 TABLE 4 PERCENTAGE FREQUENCY OF MIND SPEED BY HOUR (GMT) HOUR CALM 1-3 4-10 11-21 22-33 34-47 48+ MEAN FREQ OBS 004.03 1.4 4.3 23.6 35.8 25.0 8.2 1.7 18.2 100.0 352 066.09 1.9 3.9 23.6 39.1 22.4 7.6 1.0 17.0 100.0 644 12215 2.0 4.8 27.0 35.2 20.0 8.7 2.3 17.4 100.0 355 186.21 2.1 2.0 25.7 33.5 25.5 9.4 1.8 18.7 100.0 865 TUT 42 74 553 709 524 190 40 18.1 2216	PERIOD: (PRIMARY) 1906-1977 TABLE 4 AREA 0026 GULF (OVER-ALL) 1862-1977 TABLE 4 AREA 0026 GULF (OVER-ALL) 1862-1977 TABLE 4 AREA 0026 GULF (A7.25) PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT) WIND SPEED (KNOT5) PCT TOTAL OBS 004.03 1.4 4.3 23.6 35.8 25.0 8.2 1.7 18.2 100.0 352 066.09 1.9 3.9 23.6 39.1 22.4 7.6 1.6 17.0 100.0 644 12215 2.0 4.8 27.0 35.2 20.0 8.7 2.3 17.4 100.0 355 18621 2.1 2.0 25.7 33.5 25.5 9.4 1.8 18.7 100.0 865 TUT 42 74 553 749 524 100 40 18.1 2216

			7	ARLE S									ABLE 6					
	PCT FR		TOTAL	-		(EIGHTHS)			PERCEN			CY OF	CEILIN NH <5/					
WND DIR	0=2	3-4	5-7	8 6	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600	1000	2000	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N NE	1.9	1.2	2.6			6.8	.0	.6	2.6	6.8	6.8	1.7	.6	.6	.0	.0		
E SE	.0	.0	.0			.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	
SE	.6	.0	•0			6.0	.0	.0	.0	.0	1.2	.0		.0	.0	.0	.6	
5	1.6	2.3	1.7	2.3		4.7	.0	.0	1.2	. 5	.6	.6	.5	.0	.0	.0	4.5	
SW	1.6	1.4	4.0			4.9	.0	.0	. 2	. 8	2.0	.6	.2	.6	.6	.0	3.7	
W	.6	3.4	8.1	5.7		6,2	.0	.0	.9	4.0	3.7	.0	.6	.0	.0	.0	8.5	
NW	1.2	2.2	8.9	21.4		7.0	.6	3.1	4.8	9.5	4.2	2.2	.6	.0	.6	.0	8.1	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	1.9	.6		6,2	.0	.0	.6	.6	.6	.0	.0	.0	.0	.0	.6	
TOT DBS			44	88	161		1	6	17	40	33	9	4	2	2	0	47	161
TOT PCT	7.5	10.6	27.3	54.7	100.0)	.6	3.7	10.6	24.8	20.5	5.6	2.5	1.2	1.2	- 0	29.2	100.0

TABLE 7

CUMULATIVE PCT FREQ DF SIMULTANEOUS OCCURRENCE OF CEILING MEIGHT (NM >4/8) AND VSBY (NM)

					AZBA (ML				
C	EILING	OR	- UR	- OR	• OR	• DR	• OR	• OR	- DR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
- 08	>6500	.0	.0	.0	.6	.6	.6	.6	.6
. DR	>5000	.6	1.2	1.2	1.8	1.8	1.8	1.8	1.8
- 78	>3500	1.8	3.0	3.0	3.6	3.0	3.6	3.4	3.6
. 04	>2000	6.0	7.7	8.3	8.9	8.9	9.5	9.5	9.5
. OR	>1000	16.7	26.2	30.4	31.0	31.0	31.5	31.5	31.5
. 78	>400	27.4	46.4	54.8	55.4	55.4	56.0	56.0	56.0
. חפ	>300	29.2	55.4	64.9	65.5	65.5	66.1	66.1	66.1
. 08	>150	29.2	57.1	68.5	69.0	69.0	69.6	69.6	69.6
- 08	> 0	29.2	57.1	69.0	69.6	69.6	70.2	70.2	70.2
	TOTAL	49	96	116	117	117	118	118	118
TO	TAL NUMB	FR OF UB	SI 16			CT FREQ	NH 45/81	29.8	

TABLE 7A
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 085C0 085 4.7 3.1 3.1 10.4 8.3 9.9 12.0 10.9 37.5 .0 192

S	F	P	T	F	M	B	F	R

								SEP	TEMBER					
PERIODI	(PRIMARY) 1 (OVER-ALL) 1	906-1977 862-1977						TA	BLE 8				ARE	47.25 76.5W
			P	ERCENT	PREC	F WIN	DIRE	TH VAR	VS DCC	URRENC	E DR N	ON-OCC	URRENC	E OF
	VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	<1/2	PCP NO PCP TOT %	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	1/2<1	PCP NO PCP TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
	1<2	PCP ND PCP TOT &	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	2<5	PCP NO PCP TOT &	2.2	1.4 1.5	.0	.0	.5 .9 1.4	.5	.8	1.9	.0	.0	5.1 7.4 12.6	
	5<10	PCP NO PCP TOT \$	2.9 5.5 8.4	.9	.0	1.6	2.1 3.0	1.0 1.0	1.0 8.0 9.1	2.3 10.1 12.4	.0	.0	7.9 29.8 37.7	
	10+	PCP NO PCP TOT \$	9.5 10.5	1.3 1.5	.5	2.8	6.0	6.2	6.3	1.2 10.7 11.9	.0	1.4	2.8 44.7 47.4	

TOT NBS TOT PCT 21.4 4.2 ,5 5.3 10.9 8.1 16.5 31.2 .0 1.9 100.0

TABLE 9

						_							
(NM)	SPO KTS	N	WE	E	SE	S	311	×	NW	VAR	CALM	PCT	DRS
	0-3	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.4	.0		.4	
	TOT \$.0	•0	•0	•0	.0	.0	.0	.4	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	• 0	.0	.4	. 4	.0	.0	.0	.0		.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.4	.0		.4	
	TOT \$.0	•0	•0	.4	.4	.0	.0	.4	.0	.0	1.3	
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.4	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.3	.1	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		•0	
	TOT \$.0	•0	•0	•0	.0	.0	.3	.5	.0	.0	.9	
	0-3	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.9	
2<5	4-10	. 8	. 9	.0	.0	. 9	.0	.3	1.1	.0		3.9	
	11-21	.4	.0	.0	.0	.0	.0	.0	1.7	.0		2.2	
	22+	1.2	.1	.0	.0	.4	.4	.0	2.6	.0		4.8	
	TOT \$	2.4	1.4	•0	•0	1.3	.4	.8	5.5	.0	.0	11.8	
	0-3	.4	.0	.0	.0	.0	.4	.0	.0	.0	.4		
5<10	4-10	1.2	.4	.0	.7	2.0	.0	1.2	2.4	.0		7.9	
	11-21	2.8	.5	.0	.9	.9	.0	3.7	3.4	.0		12.2	
	22+	3.8	.1	.0	.4	.0	. 8	4.7	5.9	.0		15.7	
	TOT %	8.3	1.1	.0	2.0	2.8	1.2	9.6	11.7	.0	.4	37.1	
	0-3	.7	.2	.0	.0	. 8	.5	.4	.4	.0	1.3	4.4	
10+	4-10	3.8	.5	.0	1.3	2.5	3.7	1.7	2.9	.0		16.6	
	11-21	1.9	.4	.4	1.3	1.9	3.1	2.7	5.8	.0		17.5	
	22+	3.5	• 2	.0	.4	1.2	1.1	1.2	2.4	.0		10.0	
	TOT \$	9.8	1.4	.4	3.1	6.3	8.4	6.1	11.6	.0	1.3	48.5	
	-												229
1	TOT PCT	20.5	3.9	.4	5.5	10.9	10.0	16.8	30.1	.0	1.7	100.0	

5	F	0	T	F	M	R	c	٠

PERICO:	(PRIMARY)	1906-1977
	(QVER-ALL)	

TABLE 10

AREA 0026 GULF OF PEILAS

ERCENT FREQUENCY DE CEILING	HEIGHTS (FEET, NH	>4/81	AND
-----------------------------	-------------------	-------	-----

HD (G	UR MT)	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH C5/8	TOTAL
00	£03	•0	2.3	7.0	23.3	9.3	9.3	4.7	.0	2.3	.0	58.1	41.9	43
06	603	2.4	2.4	4.8	26.2	26.2	4.8	.0	2.4	.0	.0	69.0	31.0	42
12	615	•0	.0	20.5	20.5	17.9	7.7	.0	.0	2.6	.0	69.2	30.8	39
18	153	•0	7.5	7.5	22.6	28.3	1.9	3.8	1.9	.0	.0	73.6	26.4	53
P	T T	.6	3.4	9.6	23.2	20.9	10	2.3	1.1	1.1	.0	120	32.2	177

TABLE 11

											0	••		
		PERCENT	FREQUE	NCY VSBY	(NM)	BY HOUR		CUMULAT	CEILI	FREQ	OF RAN	GES DF NH >4/8	VSBY (NM)	AND/OR
(GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	DBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8	TOTAL
60300	•0	1.8	1.8	12.5	33.9	50.0	56	00603	.0	10.3	38.5	20.5	41.0	39
90390	•0	.0	.0	12.3	44.6	43.1	65	90300	2.4	9.8	41.5	31.7	26.8	41
12615	1.9	1.9	1.9	18.5	31,5	44.4	54	12615	.0	25.7	57.1	20.0	22.9	35
18621	•0	2.8	1.4	11.3	33.8	50.7	71	18621	.0	15.1	43.4	30.2	26.4	53
PCT	.4	1.6	1.2	33 13.4	36.2	47.2	246 100.0	TOT	.6	25	75 44.6	26,2	29.2	168

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 55/59 50/54 45/49 40/44 35/39 30/34 TOTAL PCT .0 .8 3.0 .8 20 .8 .8 3.4 4.2 2.6 3.0 8.7 17.0 20.0 9.4 .4 6.4 4.2 3.4 4.9 .0 .0 11.1 .4 2.6 .0 .0 .0 .0 .8 .0 .11 44 76 78 52 4.2 16.6 28.7 29.4 19.6 .0 .8 .0 .0 .0 .00000000

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP 2.9 1.4 .4 2.7 1.4 .6 4.8 6.9 10.3 16.0 1.8 3.2 5.8 .1 .0 .1 1.0 2.5 11.8 2.5 1.1 .0 .4 4.5 1.5 .00.00 6.8 11.7 10.6 14.4 29.5

TARLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR 63 58 59 59 1% MIN MEAN TOTAL OBS
37 34 45,3 356
36 32 44,0 649
37 35 45,1 353
39 37 46,2 814
37 32 45,4 2172 5% 55 52 53 54 40 39 39 41 40 50 50 50 52 51 45 45 45 46

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR 70-79 80-89 90-100 MEAN 15.4 33.8 30.8 16.3 22.5 23.8 8.3 33.3 26.7 21.2 24.7 30.6 46 81 81 .0.00 6.3 5.0 10.6

SEPTEMBER

PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1862-1977

TABLE 17

AREA 0026 GULF OF PEILAS 47.25 76.5W

PCT FREQ DF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41	45 48	49 52	53 56	57	TOT	FOG	FOG
11/13	.0	.0	.0	.0	1.0	2.0	6	.5	2.6
9/10	.0	.0	.0	.5	1.0	.0	6	.0	1.5
7/8	.0	.0	.0	.5	1.5	.0	4	.0	2.0
6	.0	.0	.5	.5	1.5	.5	6	.0	3.1
5	.0	.0	.5	2.0	.5	.0	6	.0	3.1
4	.0	.0	.5	1.5	.5	.0	5	.0	2.6
3	.0	.0		3.1	.0	.0	10	.0	5.1
2	.0	,5	1.5	3.6	.0	.0	11	.0	5.6
1	.0	.0	2.6	3.6	.0	.0	12	.5	5.6
Ö	.5	.0	9.7	3.1	.0	.0	26	.0	13.3
-1	.0	2.0	4.1	3.1	.0	.0	18	.0	9.2
-2	.0	.5	6.6	1.0	.0	.0	16	.0	8.2
4 3 2 1 0 -1 -2 -3	.0	1.5	5.6	1.0	.0	.0	16	.0	8.2
-4	.0	3.1	4.1	.0	.0	.0	14	.0	7.1
-5	.5	3,1	5.1	.0	.0	.0	17	.0	8.7
-6	1.5	3.1	3.6	.0	.0	.0	16	.5	7.7
-7/-8	1.0	1.5	.5	.0	.0	.0	6	.0	3.1
-9/-10	.5	.0	.5	.0	.0	.0	2	.0	1.0
-11/-13	.5	.5	.0	.0	.0	.0	2 2	.0	1.0
TOTAL	9		93		12			.0	193
		31		23.5	-	5	196		
PCT	4.6	15.8	47.4	23.5	6.1	2.6	100.0	1.5	98.5

PERIOD: (DVER-ALL) 1963-1977

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	TION V	ERSUS S	EA HEIG	HTS (FT)		
												202			
HGT	1-3			N 22-33	34-47	48+						NE			
4 1		4-10	11-21				PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	.0	1.2	. 9	.0	.0	.0	5.0		.0	3.8	1.2	.0	.0	.0	1.2
3-4	.0	1.2	2.0	•0	.0	.0	4.1		.0	1.2	.0	.0	.0	.0	3.8
5-6	.0		2.0	•0	.0	.0	3,2		.0		.3	.0	.0	.0	1.5
7	.0	.9		2.0	.0		6.4		.0	.0	.0	.0	.0	.0	.0
8-9	.0		.0				2.0			:0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0		.0		.0		.0	.0	.0	.0	.0
12	.0	.0	.0	.0		.0	.0		•0	.0	.0	.0	• 0	.0	.0
13-16	.0	.0	.0	.0	.0		.0		•0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	:0	.0	.0	.0		.0			.0	.0	.0	.0	.0	.0
23-25	.0	:0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-36	:0	.0	.0	.0			.0			:0		.0	• •		.0
33-40		.0		.0	.0		.0		.0	:0	.0	.0	••	.0	.0
41-48	.0	:0	.0	•0			•0		.0	.0		.0	.0		.0
49-60	.0	.0	.0	.0	.0		.0		.0	:0	.0	.0	000000000000000000000000000000000000000	.0	.00000000000000000000000000000000000000
61-70	.0	:0	.0	.0			.0		.0	:0		.0	.0	.0	.0
71-86	.0		.0	.0	.0		.0			:0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0		.0		.0	:0	.0	.0	.0	.0	.0
TOT PCT		5.2	9.6	2.9	.0		17.7		.0	4.9	1.5	.0	.0	.0	6.4
101 PC1		5.2	9.6	2.9	.0	.0	11.1		•0	*.,	1.5	.0	.0	.0	0.4
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	-0
1-2	.0	.0	.0	.0	.0		.0		.0	.0	1.2	.0	. 0	.0	1.2
3-4	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	0
5-6	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0		.0	.0 .0 1.2
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.2	.ŏ	.0	1.2
8-9	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	-0
33-40	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
49-60	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	.0	1.2	1.2	.0	.0	2.3

PER10D:	tove	R_ALL)	1963-1	1977					SEPTE	MBER				4964	0036	C	PEILAS
		N-ALL!	1,03-					TABLE	18 (CONT					47.		.5W
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT)			
HGT	1-3	4-10	11-21	5 22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	
< 1		.0	.0	.0	.0	.0	.0			1.2	1.2			.0	.0	2.3	
1-2	.0	1.2	.0	.0	.0	.0	1.2			.0	2.3			.0	.0	2.3	
3-4	.0	1.2	.0	.0	.0	.0	1.2			.0				.o	.0	.3	
5-6	.0	.0	. 9	.9	.0	.0	1.7			.0	.0			.0	.0	.6	
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0				.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	1.2	
10-11	.0	.0	.0	.0	.0	.0	. 0			.0	. 0			. 3	.0	1.5	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0			. 0	.0	.0	
13-16	.0	.0	.0	.0	1.2	.0	1,2			.0	.0			. 0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0		0	. 0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.3	.9	.9	1,2	.0	5,2			1.2	3.5		2.6	.3	.0	8.1	
													NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0			.0	.0	.3	0	.0	.0	, 3	
1-2	1.2	.0	. 9	.0	.0	.0	2.0			.0	2.3	2.9	.0	.0	.0	5.2	
3-4	.0	. 9	2.0	1.2	.0	.0	4.1			.0	3.8			.0	.0	7.3	
5-6	.0	3.8	6.4	.0	.0	.0	10.2			.0	2.3				.0	7.8	
7	.0	1.2	.0	.0	.0	.0	1.2			.0	.0		1.5	.0	.0	6.1	
8-9	.0	.0	.0	1.2	.0	.0	1,2			.0	.0			.0	.0	5.8	
10-11	.0	.0	.0	.0	, 9	.0	.9			.0	.0			.0	.0	2.3	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	2.3	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
26-32	.0	.0	• • •	.0	.0	.0	.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
41-48	.0	.0	• ?	.0	.0	.0	.0			.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70 71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
87+	.0		•0	.0	.0	.0				.0	.0			.0	.0	.0	
TOT PCT	1.2	5.8	9.3	2.3	.9	.0	19.5			.0	8.4		14.5	.0	.0	37.2	96.5

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	4.7	2,3	2.3	.0	.0	.0	9.3	003
1-2	1.2	11.0	7.0	.0	.0	.0	19.8	
3-4	.0	8,1	8.1	1,2	.0	.0	17.4	
3-6	.0	7.0	15.1	4.7	.0	.0	26.7	
7	.0	1.2	4.7	4.7	.0	.0	10.5	
8-9	.0	.0	.0	8.1	.0	.0	8.1	
10-11	.0	.0	.0	3,5	1.2	.0	4.7	
12	.0	.0	.0	2,3	.0	.0	2.3	
13-16	.0	.0		.0	1.2	.0	1,2	
17-19			.0		*.0	.0		
	.0	.0	.0	.0				
20-22	.0	.0	• 0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
	•						•	86
TOT PCT	5.8	30.2	37.2	24.4	2.3	.0	100.0	-

PERIOD): (DV	ER-ALL)	195	1-1977	,				TABLE	19											
					PERCEN	T FRE	PUENCY	OF WA	VE HE !	GHT (F	2 VS	WAVE P	ERIDO	SECON	051						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
46	2.8	6.3	2.8	1.4	2.8	.7	.0	2.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
6-7	.0	.0	.0	5.6	1.4	4.9	2.1	1.4			.0	.0	.0	.0	.0	.0	.0	.0	.0	29	9
6-7	.0	.7	.0	2.1	6.9	4.2	2.8	1.4	.7	2.8	2.1	.0	.0	.0	.0	.0	.0	.0	.0	34	10
10-11	.0	.0	2.1	2.1	4.2	2.1	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
12-13	.0	.0	.0	.0	.0	.7	1.4	2.8	2.1	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	11	13
1NDET	.0	.0	.0	.0	.0	.0	1.4	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	12
INDET	6.3	.0	.7	1.4	.7		2.8	.0	.7	.7	.0	.0		.0	.0	.0	.0	.0	.0	19	3
TOTAL	13	10		18	23	18	16	11	17	6	3	0	0	1	0	0	0	0	0	144	8
PCT	9.0	6.9	5.6	12.5	16.0	12.5	11.1	7.6	11.8	4.2	2.1	.0	.0	.7	.0	.0	.0	.0	.0	100.0	

AREA 0026 GULF DF PEILAS

TABLE 1 AREA ODED 47 PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRIN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
N	24.1	5.7	10.4	.0	.0	.0	.0	40.1	10.8	.0	3.3	1.9	.0	.0	43.9
NE	43.8	.0	6.3	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
E	18.2	18.2	.0	.0	.0	.0	.0	36.4	18.2	.0	.0	.0	.0	.0	45.5
SE	10.8	.0	.0	.0	.0	.0	.0	10.8	.0	.0	.0	.0	.0	.0	89.2
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	96.4
SW	5.2	2.6	5.2	.0	.0	.0	.0	13.0	7.1	.0	2.6	.0	.6	.0	76.6
W	4.3	.0	3.4	.0	.0	.0	.0	7.7	15.9	.0	5.6	.0	.0	.0	70.8
NW	12.0	3.4	2.1	.0	.0	.0	.0	17.5	5.6	.0	13.7	.0	.0	.0	63.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
TOT PCT	11.5 253	2.8	4.3	•0	.0	.0	.0	18.6	8.7	.0	5.5	.4	.4	.0	66.4

TABLE 2
PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	11.3 9.2 15.9 11.7	2.8 3.1 3.2 1.7	5.6 6.2 4.8 3.3	.0	.0	.0	.0	19.7 18.5 22.2 16.7	2.8 4.6 11.1 18.3	.0	7.0 4.6 3.2 6.7	.0	1.6	.0	69.0 72.3 61.9 58.3
TOT PCT	12.0	2.7	5.0	.0	.0	.0	.0	19,3	8.9	.0	5.4	.4	.4	.0	65.6

TABLE 3
PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

								200									
WNO DIR	0-3	4-10	11-21	D (KN)	34-47	48+	TOTAL	PCT	MEAN SPO	00	03	06	HOUR 09	(GMT) 12	15	18	21
N NE	.6	2.8	5.0	3.2	1.5	:0		13.5	19.6	14.7	33.3	14.3	12.6	3.4	20.0	13.6	12.7
E	. 3	.6	. 2	.1	• 0	.0		1.1	8.0	1.0	.0	1.9	.6	1.3	.0	1.0	.5
SE	.5	1.6	4.0	1.6	.0	.0		10.8	10.3	2.4	8.3	3.9	11.2	12.4	.0	9.3	3.3
SW	.6	6.9	5.9	3.8	1.0	.2		18.6	15.8	18.3	8.3	15.5	20.9	20.2	20.0	17.3	20.7
W	.7	5.3	8.2	5,6		. 4		21.8	18.3	20.3	25.0	22.8	21.0	23.4	10.0	22.9	19.6
NW	1.0	6.3	10.0	5,8	2.9	.5		26.4	18.8	27.4	25.0	26.2	24.3	21.7	50.0	28.3	29.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.6	.0	1.7	1.9	1.1	.0	1.6	1.3
TOT OBS	155	678	830	498	177	35	2373		16.8	380	6	360	315	368	5	623	316
TOT PCT	6.5	28.6	35.0	21.0		1.5		100.0		100.0	100,0	100.0	100.0	100.0	100.0		

					TAB	LE 3A						
		WIND	SPEED	(KNDTS)						HOU	R (GMT	,
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL	PCT	MEAN	00	06	12	18 21
N	1.9	3.9	4.7	2.1	1.0		13.5	19.6	15.0	13.5	12.4	13.3
NE	1.9	1.0	,7	.3			2.9	13.8	2.7	2.6	3.4	3.0
E SE	.6	.3	.1	•0	.0		1.1	8.0	1.0	1.3	1.3	. 9
SE	1.2	1.4	.7	•1	.0		3.4	10.3	2.4	4.3	4.0	2.9
5	3.0	4.7	2.4	.6	.1		10.8	12.8	11.6	11.3	12.3	9.6
SW	3.5	7.6	4.7	2.3	.4		18.6	15.8	18.1	18.0	20.2	18.5
W	2.5	8.0	7.1	3.4	.7		21.8	18.3	20.4	22.0	23.3	21.8
NW	3.4	8.6	8.4	4.5	1.5		26.4	18.8	27.3	25.3	22.1	28.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.6	1.8	1.1	1.5
TOT GBS	441	843	684	316	89	2373		16.8	386	675	373	939
TOT PCT	18.6	35.5	28.8	13.3	3.8	-	100.0			100.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1905-1977 (DVER-ALL) 1870-1977

TABLE 4

AREA 0026 GULF OF PEILAS

PERCENTAGE	FREDUENCY	nF	WIND	SPEED	BY	HOUR	(GMT)

				WIND	SPEED (KNOTSI			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
60300	1.6	6.0	29.0	33.9	19.4	7.8	2.3	16.8	100.0	386
90300	1.8	3.7	30.2	36.7	18.4	8.1	1.0	16.6	100.0	675
12415	1.1	4.8	31.4	34.3	21.7	5.6	1.1	16.0	100.0	373
18621	1.5	5.6	26.1	34.4		7.6	1.6	17.2	100.0	939
TOT	36	119	678	830	498	177	35	16.8		2373
PCT	1.5	5.0	28.6	35.0	21.0	7.5	1.5		100.0	

				WuPE 3								1,	ABLE O					
P	CT FRE			D DIRFO		(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN NH <5/	B BY H	HTS (RECTIO	4/8) N	
WND DIR	0-2	3-4	5-7	8 &	TOTAL DBS	COVER	000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	. 8	1.0	2.6	16.5		7,3	1.4	.0	1.7	3.5	4.8	5.1	1.0	.0	.0	.0	3,5	
NE	.0	. 5	.0	1.4		7.0	.0	.0	.0	. 6	.1	.7	.0	.0	.0	.0	.5	
E	.4	. 8	.0	1.4		5.7	.0	.0	.0	.0	. 5	. 5	.5	.0	.0	.0	1.2	
SE	1.2	1.1	.6	1.4		4.7	. 5	.0	.0	.0	1.1	.0	.0	.0	.0	.0	2.8	
S	1.7	1.0	3.3	3.3		5,4	.0	.0	.0	1.8	1.8	1.2	.5	.5	.0	.0	3,6	
SW	1.7	1.4	5.6			6.1	.0	.1	. 5	2.4	3.6	3.0	1.8	.0	.0	.0	4,3	
H	1.8	2.3	6.7	12.3		6.5	. 4	.4	1.3	2.8	6.9	3.2	.6	.0	.0	.0	7.5	
NW	1.1	1.1	2.6			7.1	.6	. 5	1.8	4.8	3.7	3.9	.5	.0	.0	.0	3.9	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	1.0	.5	1.0		5.8	.0	.0	.0	. 5	.5	.5	.0	.0	.0	.0	1.0	
TOT OBS	18	21	46	124	209	6,5		,	11	34	48	38	10	1	.0	.0	59	209
TOT PCT	8.0	10.0	22.0	59.3	100.0		2.9	1.0	5,3	16.3	23.0	18.2	4.8	. 5	.0	.0	28.2	100.0

	DF SIMULTANEOUS DECURRENCE
OF CEILING HEIGHT	(NH >4/8) AND VSBY (NM)

				VSBY (NE	1)			
CEILING	 OR 	- OR	- DR	· OR	• QR	- GR	. OR	- OR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>5040	>0
- OR >6500		.0	.0	.0	.0	.0	.0	.0
■ DR >5000	.0	.5	.5	.5	.5	.0	.5	.5
■ OR >3500	2.4	3.8	4.8	5.2	5.2	5,2	5.2	5.2
■ OR >2000	8.1	20.0	22.4	22.9	22.9	22,9	22.9	22.9
■ NR >1000	17.6	39.0	44.8	45.2	46.2	46.2	46.2	46.2
■ DR >600	23.8	50.0	59.5	61.4	62.4	62.4	62.4	62.4
• OR >300	27.6	55.2	65.2	67.1	69.1	68.1	68.1	68.1
. OR >150	28.1	35.7	65.7	68.1	69.0	69.0	69.0	69.0
. OR > 0	28.1	57.1	68.1	71.4	72.4	72.4	72.4	72.4
TOTAL	59	120	143	150	152	152	152	152

TUTAL NUMBER OF OBS: 210 PCT FREQ NH <5/81 27.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD DBS 5.4 4.1 4.1 6.8 7.7 4.5 8.6 8.1 48.9 1.8 221

-	-	-	2	_	

								-							
PERIODI	(PRIMARY) 1 (OVER-ALL) 1	905-1977 870-1977						TA	BLE 8				AREA	47.0\$	OF PEILAS
			PE	RCENT	PREC	F WIN	DIRE	CTION TH VAR	VS OCC	URRENC ALUES	E OR N	IBILIT	URRENCE	E OF	
	VSBY (NM)		N	NE	•	SE	s	SW	w	NW	VAR	CALM	PCT	TOTAL	
	<1/2	PCP ND PCP	.0	:0	.0	.0	.0	.0	::	.0	.0	.0	.8		
		TOT \$.0	.0	• •	.0	.0	.0	, 8	.4	.0	.0	1.6		
		PCP	:3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4		
	1/2<1	NO PCP	.3	.0	.0	.0	.0	.0	.6	1.9	.0	.0	2.8		
		TOT \$.7	.0	.0	.0	.0	.0	.6	1.9	.0	.0	3.2		
		PCP	1.2	.0	.0	.0	.0	.0	.0	.4	.0	.0	1.6		
	1<2	NO PCP	. 3	.0	.0	.0	.0	.0	.0	. 9	.0	.0	1.2		
		TOT \$	1.5	.0	.0	.0	.0	.0	.0	1.3	.0	.0	2.8		
		PCP	3.5	.6	.0	.0	.0	.0	.0	.7	.0	.4	5.2		
	2<5	NO PCP	. 8	.0	.0	.5	.3	.5	1.0	1.7	.0	.0	4.8		
		TOT \$	4.3	.6	.0	.5	.3	. 5	1.0	2.4	.0	.4	10.0		
		PCP	2.3	.2	.4	.4	.0	2.0	1.2	2.3	.0	.0	8.8		
	5<10	NO PCP	6.8	.4	.7	.4	3,5	5.1	5,3	6.8	.0	.0	28.9		
		TOT &	9.1	.6	1.1	.6	3,5	7.1	6,5	9.1	.0	.0	37.8		
		PCP	1.1	.0	.0	.0	.0	.0	.2	.7	.0	.0	2.0		
	10+	NO PEP	4.5	. 4	.7	2.6	4.3	7.7	14.3	7.6	.0	.4	42.6		
		TOT %	5.6	.4	.7	2.6	4.3	7.7	14.5	8.3	.0	.4	44.6		

TOT NBS TOT PCT 21.3 1.6 2.2 3.7 8.1 15.4 23.4 23.5 .0 .8 100.0

TABLE 9

				PERCEN	T FREC	DF WI	ND DIF	ECTION	ISIBIL	ND SPE	ED		
VSBY	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.4	.0	.0	.0	.6	.2	.0		1.2	
	11-21	.0	.0	.0	.0	.0	.0	.4	.4	.0		. 8	
	22+	.0	.0	.0	• 0	.0	.0	.0	.0	.0		.0	
	TOT #	-0	•0	.4	•0	.0	.0	1.0	.6	.0	.0	1.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.4	1.5	.0		1.9	
	11-21	.0	.0	.0	.0	.0	.0	.2	.2	.0		.4	
	22+	.7	.0	.0	• 0	.0	.0	.0	.1	.0		. 8	
	TOT \$.7	•0	• 0	• 0	.0	.0	.6	1.8	.0	.0	3.1	
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	• 0	.0	.0	.4	. 8	.0		1.2	
	11-21	1.1	• 0	.0	• 0	.0	.0	.0	.1	.0		1.2	
	22+	.4	•0	.0	• 0	.0	.0	.0	. 8	.0		1.2	
	TOT \$	1.4	•0	•0	•0	.0	.0	.4	1.6	.0	.0	3.5	
	0-3	.0	.0	.0	•0	.0	.1	.3	.0	.0	.4	.8	
2<5	4-10	.7	• 1	.0	.0	.0	.0	.0	.4	.0		1.2	
	11-21	1.8	.1	.0	.0	.0	.4	.3	1.3	.0		3.8	
	22+	1.6	.4	.0	.5	. 3	.0	.4	.7	.0		3.8	
	TOT \$	4.1	.6	.0	.5	.3	.5	1.0	2.3	.0	.4	9.6	
	0-3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
5<10	4-10	1.3	.4	.7	• 1	1.9	3.8	2.2	1.5	.0		11.9	
	11-21	3.3	.0	.0	•0	. 9	1.5	3.2	5.8	.0		14.6	
	22+	4.2	.2	.4	• 1	.6	1.4	. 9	1.4	.0		9.2	
	TOT \$	8.8	.6	1.1	•6	3.4	6.8	6.3	8.8	.0	.0	36.2	
	0-3	.4	.0	.0	.0	.4	.8	.0	.0	.0	.4	1.9	
10+	4-10	1.8	.0	.4	1.3	1.7	2.4	1.8	2.5	.0		11.9	
	11-21	2.4	.4	.3	.9	4.7	3.8	9.2	4.9	.0		26.5	
	22+	. 8	.0	.0	.4	.0	.9	2.8	.6	.0		5.4	
	TOT %	5.4	.4	•7	2.5	6.8	7.8	13.8	8.0	.0	.4	45.8	
	TOT 085												260
	TOT PET	20.4	1.5	2.1	3.6	10.5	15.1	23.0	23.1	.0	. 8	100.0	

OCTOBER

PERIOD:	(PRIMARY)	1905-1977
	(DVER-ALL)	1870-1977

TABLE 10

AREA 0026 GULF OF PEILAS 47.05 76.4W

PERCENT	FREQUENCY DE				34/8) AND	
	DCCURRE	NCF OF N	H <5/8 8	Y HOUR		

HOUR (GMT)	000	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	6.5	.0	9.7	12.9	25.8	16.1	4.8	.0	.0	.0	75.8	24.2	62
06609	2.1	.0	6.3	18.8	14.6	18.8	2.1	2.1	.0	.0	64.6	35.4	48
12615	3.8	1.9	3.8	11.3	34.0	13.2	7.5	.0	.0	.0	75.5	24.5	53
18621	.0	1.9	1.9	20.8	17.0	22.6	3.8	.0	.0	.0	67.9	32.1	53
TOT	3.2	.9	12	34 15.7	50 23.1	38 17.6	10	.5	.0	.0	154	28.7	216

TABLE 11

TABLE 12

		PERCENT	FREQUENCY	V VSBY	(NM)	BY HOUR		
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	
00603	1.4	1.4	4.2	12.7	36.0	43.7	71	
06609	1.5	2.9	4.4	4.4	42.6	44.1	68	
12615	3.2	3.2	4.8	7.9	39.7	41.3	63	
18621	1.6	4.7	1.6	14.1	28.1	50.0	64	
TOT PCT	1.9	3.0	3.8	26 9.8	96 36.8	119	266	

CUMULAT), BY HOUR	AND/DR
HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00803	6.7	16.7	40.0	38.3	21.7	60
90300	2.1	8.5	27.7	38,3	34.0	47
12815	3,9	13.7	33.3	45,1	21.6	51
18821	.0	5.8	34.6	34.6	30.8	52
TOT	3.3	24	72	39.0	56 26.7	210

					₹.	ABLE 13	•				
		PERCI	ENT FR	EQUENCY	OF R	ELATIVE	HUMI	DITY B	Y TEMP	TOTAL	PCT
TEMP	F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	085	FREQ
60/6		.0	.0	.0	:0	. 8	1.2	.0	.0	6	2.5
55/5 50/5		.0	.0	.0	1.2	4.1	4,1	8.7	7,1	61	25.3
45/4		.0	.0	.0	:6	2.1	14.5	16.2	17.0	121	50.2 17.8
35/3	9	.0	.0	•0	.0	.4	.4	.0		2	.8
PCT		.0	.4	.0	2.1	8.7	25.7	34.0	29.0	241	100.0

				TABL	E 14				
	PERCEN	T FR	EQUENCY	OF W	IND DI	RECTIO	N BY T	EMP	
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	:0	.0	.5	.9	.6	.0	:9	:0	.4
.7	. 8		.1	1.0	2.9	3.8	8.6	.0	. 8
:5	.0	.4	1.8	5.5	8.4	13.9	10.8	.0	. 4
.4	.0	.0	•0	.0	.4	.0	.0	.0	• 0
. 3	1.7	1.5	3.4	8.5	16.2	23.5	24.9	.0	2.1

	TARLE	15

	MEANS,	EXTREME	S AND	PERCEN	TILES	OF TE	MP (DE	G F) [BY HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	61	58	52	46	41	39	37	46.7	383
90360	59	54	51	46	41	38	34	45.9	673
12615	61	55	52	47	41	39	36	46.9	367
18821	64	57	53	48	42	39	36	47.7	872
TOT	64	55	52	47	41	38	34	46.9	2295

	PERC	ENT FRE	GUENCA	OF RELA	I I AE H	UMIDITY	BY HUUN	•
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60300	.0	4.5	6.0	35.8	32.8	20.9	81	67
90300	.0	.0	8.2	23.0	41.0	27.9	84	61
12615	.0	.0	8.3	21.7	36.7	33.3	85	60
18821	.0	5.2	12.1	20.7	27.6	34.5	83	58
TOT	0	6	21	63	85	71	83	246

OCTOBER

PERIOD: (PRIMARY) 1905-1977 (OVER-ALL) 1870-1977

TABLE 17

AREA 0026 GULF OF PEILAS 47.05 76.4W

PLT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

		364	- CHI- C								
AIR-SEA	37	41	45	49 52	53	57	61	TOT	FOG	WO	
THP DIF	40	44	48	52	56	60	64		FOG	FOG	
14/16	.0	:0	.0	.0	.0	:6	2:2	2	.0	3.5	
11/13	.0	.0	.0	.0	1.3	.0	2.2	8	.0	3.5	
9/10	.0	.0	.0	-0	.0	.4	.0	1	.0	.4	
7/8	.0	.0	.0	.4	.4	:4	.0	4	.0	1.8	
6	.0	.0	.0	.0	. 9	.0	.0	2	. 4	.4	
5	.0	.0	.0	1.8	.9	.0	.0	4	.0	1.8 .4 .9 2.2 3.1	
	.0	. 0	.0	1.8	. 4	.0	.0	5	.0	2.2	
3	.0	.0	.9	2.2	1.3	. 0	.0	á		3.1	
2	.0	.0	.0	4.0	1.3	. 0	.0	8 12	1.3	4.0	
7	.0	.0	3.5	6.2		.0	.0	24	.,9	9.7	
	.0	• •	3.3		• •		•0	24	• 7	7.0	
0	.0	. 9	3.5	4.0	.0	.0	.0	19	• •	7.9	
0	.0	.9	8.8	4.8	.0	.0	.0	33	, 9	13.7	
-2	.0	2.6	10.1	3.1	.0	.0	.0	36	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4.0 9.7 7.9 13.7 15.9 10.1 7.5 7.5 2.6	
-3	.0	2.6	7.0	.4	.0	.0	.0	23	.0	10.1	
-4	. 9	3.1	3.1	.4	.0	.0	.0	17	.0	7.5	
	.0	3.1	4.0	.4	.0	.0	.0	17	.0	7.5	
-6	.0	1.3	1.3	.0	.0	.0	.0	6	.0	2.6	
-6 -7/-8	.9	.4	.0	4	.0	.0	.0	6	0 13	. 9	
-9/-10	.4	.0	.4	.0	.0	.0	.0	2	.0	. 9	
-11/-13	.0	.0	. 0	.4	. 0	.0	.0	ī	. 0	. 4	
TOTAL	. 5		97		15	• •	.,	•	13	214	
TOTAL	,	24	•	66		4	•	227		214	
PCT	2.2	15.0	42.7	29.1	4.6	1.8	2.6	100.0	5.7	94.3	

PERIOD: (DVER-ALL) 1963-1977

0

200

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) N 22-33 .0 4.0 4.0 1.8 .9 .9 .0 .0 .0 .0 .0 .0 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 26-32 26-32 26-32 49-60 61-70 71-86 TO PCT 1-3 48+ PCT 1.3 4.9 8.6 1.8 1.8 9.9 .0 .0 .0 .0 .0 .0 .0 1-3 4-10 700000000000000000000 48+ HGT
<1
1-2
3-4
5-6
7
8-9
10-11
12
13-16
17-19
23-25
26-32
33-35
40-60
61-70
71-86
TOT PCT 22-33 48+ 34-47 484 1-3 1-3 4-10

P	A	G	E	1	3

PERIO) ((O V	ER-ALL	195	1-1977					TABLE	19											
					PERCEN	T FRE	QUENCY	DF WA	VE HEI	GHT (F	7) VS	WAVE P	ERIDO	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10+11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
46	1.1	4.4	6.1	1.7	3.9	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	
6-7	.0	.6	7.2	5.0	3.3	3.9	5.0	1.7	1.1	.0	.0		.0		.0	.0	.0	.0	.0	50	1
8-9	.0	.6	2.2	4.4	2.8	5.0		2.2		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	7
10-11	.0	.6	.0	.0	1.1	2.8		3.9			.6	.6			.0	.0	.0	.0	.0	35	14
10-11	.0	.0	.0	.0	.0	.0		.6		.0	.0		.0	.0	.0	.0	.0	.0	.0		14
>13	.0	.0	.0	.0	.6	.0		1.1		1.7	.0				.0	.0	.0	.0	.0	7	17
>13 INDET	5.5	.0	1.1	1.1	.6	.0		.6		.0	.0			.0	.0	.0	.0	.0	.0	16	7
TOTAL	12	11	30	22	22	22	13	18		12	1	1	2	0	0	0	0	0	0	181	
PCT	6.6	6.1	16.6	12.2	12.2	12.2		9.9		6.6	.6	.6	1.1	.0	.0	.0	.0	.0	.0	100.0	

SEA HEIGHT (FT) 2-33 34-47 48+ PCT TOTO .0 .0 .0 8.0 .0 .0 .0 16.8 9.7 .0 .0 43.4 2.7 .0 .0 10.6 4.4 .9 .0 11,5
.0 .0 .0 8.0 .0 .0 .0 16.8 9.7 .0 .0 43.4 2.7 .0 .0 10.6
.0 .0 .0 8.0 .0 .0 .0 16.8 9.7 .0 .0 43.4 2.7 .0 .0 10.6
0 .0 .0 16.8 9.7 .0 .0 43.4 2.7 .0 .0 10.6
9.7 .0 .0 43.4
2.7 .0 .0 10.6
4.4 .9 .0 11.5
.9 .0 .0 1.8
4.4 .9 .0 6.2
.0 .0 .0
.0 1.8 .0 1.8
.0 .0 .0
.0 .0 .0
.0 .0 .0
.0 .0 .0
.0 .0 .0
.0 .0 .0
.0 .0 .0
.0 .0 .0
.0 .0 .0
.0 .0 .0
113
22.1 3.5 .0 100.0

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	1.8	6.2	.0	.0	.0	.0	8.0	003
					.0	.0	16.8	
							43.4	
		. 9					10.6	
	.0	. 0			.9			
		. 0						
					. 9			
		. 0						
					0		.0	
							.0	
-1+		••	••	•••	•		••	113
	HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-12 20-22 23-25 240-44 49-60 61-70 71-86 87+	HGT 0-3 <1 1.8 1-2 .0 3-4 .0 5-6 .0 7 .0 8-9 .0 10-11 .0 12 13-16 .0 17-19 .0 20-22 .0 23-25 .0 23-25 .0 23-40 .0 41-48 .0 49-60 .0 61-70 .0 71-86 .0	HGT 0-3 4-10 <1 1.8 6.2 1-2 .0 7.1 3-4 .0 7.1 5-6 .0 .9 7 .0 .9 8-9 .0 .9 10-11 .0 .0 12 .0 .0 13-16 .0 .0 17-19 .0 .0 20-22 .0 .0 23-25 .0 .0 26-32 .0 .0 26-32 .0 .0 26-32 .0 .0 41-48 .0 .0 41-48 .0 .0 41-60 .0 .0 61-70 .0 .0 71-86 .0 .0	HGT 0-3 4-10 11=21 <1 1.8 6.2 .0 1-2 .0 7.1 9.7 3-4 .0 7.1 26.5 5-6 .0 .9 7.1 7 .0 .9 7.3 8-9 .0 .9 5.3 10-11 .0 .0 .9 12 .0 .0 .0 .0 17-19 .0 .0 .0 .0 20-22 .0 .0 .0 .0 23-25 .0 .0 .0 .0 26-32 .0 .0 .0 .0 21-88 .0 .0 .0 .0 61-70 .0 .0 .0 .0 61-70 .0 .0 .0 .0 71-88 .0 .0 .0 .0 61-70 .0 .0 .0 .0 71-88 .0 .0 .0 .0 71-88 .0 .0 .0 .0 71-88 .0 .0 .0 .0 71-88 .0 .0 .0 .0 71-88 .0 .0 .0 .0 71-88 .0 .0 .0 .0	HGT 0-3 4-10 11-21 22-33 <1 1.8 6.2 .0 .0 1-2 .0 7.1 9.7 .0 3-4 .0 7.1 26.5 9.7 5-6 .0 .9 7.1 2.6.5 7 0 .9 5.3 4.4 12 .0 .0 .0 .0 .9 10-11 .0 .0 .0 .9 4.4 12 .0 .0 .0 .0 .0 17-19 .0 .0 .0 .0 20-22 .0 .0 .0 .0 23-25 .0 .0 .0 .0 23-25 .0 .0 .0 .0 24-84 .0 .0 .0 .0 25-32 .0 .0 .0 .0 26-32 .0 .0 .0 .0 26-32 .0 .0 .0 .0 26-32 .0 .0 .0 .0 41-48 .0 .0 .0 .0 .0 41-60 .0 .0 .0 .0 61-70 .0 .0 .0 .0 61-70 .0 .0 .0 .0 61-70 .0 .0 .0 .0	HGT 0-3 4-10 11-21 22-33 34-47 <1 1.8 6.2 .0 .0 .0 .0 1-2 .0 7.1 9.7 .0 .0 5-6 .0 .9 7.1 26.5 9.7 .0 7 .0 .9 7.1 2.7 .0 10-11 .0 .0 .9 4.4 .9 .0 10-11 .0 .0 .0 .9 4.4 .9 12 .0 .0 .0 .0 .0 .0 13-16 .0 .0 .0 .0 .0 .0 13-16 .0 .0 .0 .0 .0 .0 13-16 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 24-88 .0 .0 .0 .0 .0 .0 24-88 .0 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 .0 .0 61-71 .0 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 .0 .0	HGT 0-3 4-10 11-21 22-33 34-47 48+ <1 1.8 6.2 .0 .0 .0 .0 .0 1-2 .0 7.1 9.7 .0 .0 .0 3-4 .0 7.1 26.5 9.7 .0 .0 5-6 .0 .9 7.1 2.7 .0 .0 7 .0 .9 5.3 4.4 .9 .0 10-11 .0 .0 .9 4.4 .9 .0 112 .0 .0 .0 .0 .0 .0 .0 12 .0 .0 .0 .0 .0 .0 .0 13-16 .0 .0 .0 .0 .0 .0 .0 13-16 .0 .0 .0 .0 .0 .0 .0 13-16 .0 .0 .0 .0 .0 .0 .0 20-22 .0 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 .0 24-8 .0 .0 .0 .0 .0 .0 .0 25-32 .0 .0 .0 .0 .0 .0 .0 26-32 .0 .0 .0 .0 .0 .0 .0 26-32 .0 .0 .0 .0 .0 .0 .0 26-40 .0 .0 .0 .0 .0 .0 .0 41-48 .0 .0 .0 .0 .0 .0 .0 .0 41-48 .0 .0 .0 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 .0 .0 .0 .0	HGT 0-3 4-10 11-21 22-33 34-47 48+ PCT <1 1.8 6.2 .0 .0 .0 .0 .0 8.0 1-2 .0 7.1 9.7 .0 .0 .0 .0 43.4 5-6 .0 7.1 26.5 9.7 .0 .0 43.4 5-6 .0 .9 7.1 2.7 .0 .0 10.6 7 .0 .9 5.3 4.4 .9 .0 11.5 8-9 .0 .9 5.3 4.4 .9 .0 11.5 10-11 .0 .0 .9 4.4 .9 .0 11.5 12 .0 .0 .0 .0 .0 .0 .0 .0 13-16 .0 .0 .0 .0 .0 .0 .0 .0 13-16 .0 .0 .0 .0 .0 .0 .0 .0 17-19 .0 .0 .0 .0 .0 .0 .0 .0 .0 20-22 .0 .0 .0 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 .0 .0 .0 23-24 .0 .0 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 .0 .0 .0 24-80 .0 .0 .0 .0 .0 .0 .0 .0 41-48 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 41-48 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 41-60 .0 .0 .0 .0 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 11-86 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 11-86 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

				5							SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.7	0	.0	.0	.0	.7	.9	3.5	.0	.0	.0	.0	1.1	
1-2	.0	.0	.7	.0	.0	.0	.7	•0	1.8	.2	.0	.0	.0	. 3.8	
	.0	.9	2.4	.0	.0	.0	3,3	.0		3.5	.9	.0	.0	6.2	
5-6	.0	.7	.7	.0	.0	.0	1.3	.0	.2	1.1	.0	.0	.0	1.3	
7	.0	.0	.0	.7	.0	.0	.7	.0	.0	.2	.2	.9	.0	1.3	
8-9	.0	.9	•0	.0	.0	.0	. 9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0-	.0	.0		.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	• 0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	.0	.0	.0	. 0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.1	3.8	.7	.0	.0	7.5	. 9	5.8	5.3	1.1	2.0	.0	15.0	
HGT	1-3	4-10	11-21	W 22-33	34-47	48+	PCT	1-3	4-10	11-21	NW 22-33	34-47	48+	PCT	TOTAL
HGT	1-3	4-10 .0	11-21	w 22-33	34-47	48+		1-3	4-10 2.2	11-21	22-33 .0	.0	48+	PCT 2.2	TOTAL
<1 1-2	.0	1.8	11-21	22-33			4.9	.0	2.2	.0	.0	.0	.0	2.2	TOTAL PCT
1-2 3-4	.0	1.8 1.8	.0	.0	.0	.0	4.9 11.7	.0	2.2	.9	.0 .0 1.3	.0	.0	2.2 .9 8.8	TOTAL PCT
<1 1-2 3-4 5-6	.0	1.8 1.8	3.1	.0	.0	.0	11.7 1.8	.0	2.2	.0 .9 6.6 3.5	22-33 .0 .0 1.3	.0	.0	2.2 .9 8.8 4.4	TOTAL PCT
<1 1-2 3-4 5-6 7	.0	1.8 1.8	3.1 7.3	22-33 .0 .0 2.7	.0	.0	0 4.9 11.7 1.8 4.0	.0	2.2	.0 .9 6.6 3.5 2.7	22-33 .0 .0 1.3 .9	.0	.0	2.2 .9 8.8 4.4 2.9	TOTAL PCT
1-2 3-4 5-6 7 8-9	0 0 0	1.8 1.8	3.1 7.3 1.8 1.5	22-33 .0 .0 2.7	.0	.0	11.7 1.8 4.0	.0	2.2	.0 .9 6.6 3.5 2.7	22-33 .0 .0 1.3 .9 .2	00000	.0	2.2 .9 8.8 4.4 2.9	TOTAL
<1 1-2 3-4 5-6 7 8-9 10-11	.0	1.8 1.8 0.9	3.1 7.3 1.8	22-33 .0 .0 2.7 .0	.0	.0	10 4.9 11.7 1.8 4.0	.0	2.2	.0 .9 6.6 3.5 2.7	22-33 .0 .0 1.3 .9 .2 .0 1.8	000000000000000000000000000000000000000	.0	2.2 .9 8.8 4.4 2.9	TOTAL PCT
<1 1-2 3-4 5-6 7 8-9 10-11	000000000000000000000000000000000000000	1.8 1.8 .0 .9	3.1 7.3 1.8 1.5	22-33 .0 .0 2.7 .0 1.5	.0	.0	0 4.9 11.7 1.8 4.0 .0 2.4	.0	2.2	.0 .9 6.6 3.5 2.7 .0	22-33 .0 .0 1.3 .9 .2 .0 1.8	000000000000000000000000000000000000000	.0	2.2 .9 8.8 4.4 2.9 .0 1.8	TOTAL PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16	.0	1.8 1.8 .0 .9	3.1 7.3 1.8 1.5 .0	22-33 .0 .0 2.7 .0 1.5 .0	000000000000000000000000000000000000000	.0	0 4.9 11.7 1.8 4.0 0 2.4	.0	2.2	.0 .9 6.6 3.5 2.7 .0	22-33 .0 .0 1.3 .9 .2 .0 1.8	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	2.2 .9 8.8 4.4 2.9 .0 1.8	TOTAL PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19	000000000000000000000000000000000000000	1.8 1.8 1.9 .0	3.1 7.3 1.8 1.5 .0 .7	22-33 .0 .0 2.7 .0 1.5 .0	000000000000000000000000000000000000000	.0	0 4.9 11.7 1.8 4.0 0 2.4	.0	2.2	0 9 6.6 3.5 2.7 .0 .0	22-33	000000000000000000000000000000000000000	.00.00	2.2 .9 8.8 4.4 2.9 .0 1.8	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22	000000000000000000000000000000000000000	1.8 1.8 1.9 .0 .0	3.1 7.3 1.8 1.5 .0	22-33 .0 .0 2.7 .0 1.5 .0	000000000000000000000000000000000000000	.0	0 4.9 11.7 1.8 4.0 0 2.4 0.7	.0	2.2	.0 .9 6.6 3.5 2.7 .0 .0	22-33	000000000000000000000000000000000000000	.00.00	2.2 .9 8.8 4.4 2.9 .0 1.8	TOTAL PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25	000000000000000000000000000000000000000	1.8 1.8 .0 .9 .0	3.1 7.3 1.8 1.5 .0 .7	22-33 .0 .0 2.7 .0 1.5 .0 1.8	000000000000000000000000000000000000000	.0	11.7 1.8 4.0 0 2.4 0	.0	2.2	0 9 6.6 3.5 2.7 0 0 0	22-33 .0 .0 1.3 .9 .2 .0 1.8	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	2.2 .9 8.8 4.4 2.9 .0 1.8	TOTAL
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32	000000000000000000000000000000000000000	1.8 1.8 .0 .9 .0	3.1 7.3 1.8 1.5	22-33 .0 .0 2.7 .0 1.5 .0 1.8	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	0 4 9 11 7 1 8 4 0 2 4 0 7 0	.0	2.2	.0 .9 6.6 3.5 2.7 .0 .0 .0	22-33	000000000000000000000000000000000000000		2.2 .9 8.8 4.4 2.9 .0 .0 .0	TOTAL
1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40	000000000000000000000000000000000000000	1.8 1.8 .0 .9 .0	3.1 7.3 1.8 1.5 .0 .0	22-33 .0 .0 2.7 .0 1.5 .0 1.8	000000000000000000000000000000000000000	000000000000000000000000000000000000000	11.8 4.0 2.4 0.7 0.0 0.0	.0	2.2	.0 .9 6.6 3.5 2.7 .0 .0 .0 .0	22-33	000000000000000000000000000000000000000	000000000000000000000000000000000000000	2.2 .9 8.8 4.4 2.9 .0 .0 .0 .0	TOTAL PCT
1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 26-32 33-40 41-48	000000000000000000000000000000000000000	1.8 1.8 1.0 9	3.1 7.3 1.8 1.5 0	22-33 .0 .0 2.7 .0 1.5 .0 .0 .0	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	11.7 1.8 4.0 2.4 0 0 0 0 0 0	.000	2.2	0 9 6.6 3.5 2.7 .0 .0 .0 .0	22-33	000000000000000000000000000000000000000		2.2 .9 8.8 4.4 2.9 .0 1.8	TOTAL PCT
1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48		1.8 1.8 .0 .0 .0 .0 .0	0 3 1 7 3 1 1 5 0 7 0 0 0 0 0 0 0	22-33	000000000000000000000000000000000000000	.00	2.4 0 0 11.7 1.8 4.0 2.4 0 7 .0 0		2.2.9	.0 .9 6.6 3.5 2.7 .0 .0 .0 .0 .0	22-33 .0 .0 .0 .13 .9 .2 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	.0	2.2 .9 8.8 4.4 2.9 .0 1.8 .0 .0 .0	TOTAL PCT
1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70		1.8 1.8 .0 .0 .0 .0 .0 .0 .0	3.1 7.3 1.8 1.5 .0 .0 .0	22-33 .0 .0 2.7 .0 1.5 .0 .0 .0	000000000000000000000000000000000000000		11.7 1.8 4.0 2.4 .0 .0 .0 .0		2.2	.0 .9 0.6 3.5 2.7 .0 .0 .0 .0	22-33 .0 .0 .0 .1.3 .9 .2 .0 .0 .0 .0 .0	000000000000000000000000000000000000000		2.2 .9 8.8 4.4 2.9 .0 1.8 .0 .0 .0	TOTAL PCT
1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86		1.8 1.8 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.1 7.3 1.5 0.0 0.0 0.0 0.0	22-33 .0 .0 2.7 .0 1.5 .0 .0 .0 .0 .0	000000000000000000000000000000000000000		2.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2.2	.0 .9 6.6 3.5 2.7 .0 .0 .0 .0	22-33 .0 .0 1.3 .9 .0 1.8 .0 .0 .0 .0	000000000000000000000000000000000000000		2.2 98.8 4.4 2.9 .0 .0 .0 .0 .0	TOTAL PCT
1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 34-40 41-48 49-60 61-70 71-86		1.8 1.8 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.1 7.3 1.8 1.5 0.0 0.0 0.0 0.0	22-33 .0 2.7 .0 1.5 .0 .0 .0 .0 .0	.0		0 4.9 11.7 1.8 4.0 2.4 .0 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	2.2	.0 .9 .6 .5 .7 .0 .0 .0 .0 .0 .0 .0 .0	22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	000000000000000000000000000000000000000		2.2 .9 8.8 4.4 2.9 .0 .0 .0 .0 .0 .0	PCT
1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86		1.8 1.8 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.1 7.3 1.5 0.0 0.0 0.0 0.0	22-33 .0 .0 2.7 .0 1.5 .0 .0 .0 .0 .0	000000000000000000000000000000000000000		11.7 1.8 4.0 2.4 .0 .0 .0 .0		2.2	.0 .9 6.6 3.5 2.7 .0 .0 .0 .0	22-33 .0 .0 1.3 .9 .0 1.8 .0 .0 .0 .0	000000000000000000000000000000000000000		2.2 98.8 4.4 2.9 .0 .0 .0 .0 .0	TOTAL PCT

PERIOD: (DVER-ALL) 1963-1977

OCTOBER

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

OCTOBER AREA 0026 GULF OF PEILAS
TABLE 18 (CONT) 47,05 76.4W

TABLE 1

AREA 0026 GULF OF PEILAS 47.05 76.4W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOT	
N	27.1	2.7	12.0	.0	.0	.0	.0	40.0	11.1	.0	1.8	.0	3.1		44.0
NE	14.7	.0	14.7	.0	.0	.0	.0	29.4	14.7	.0	.0	.0	.0	.0	55.9
E	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	.0	.0	.0	100.0
SE	.0	40.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	.0	60.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	.0	96.1
SW	.0	3.0	9.7	.0	.0	.0	.0	12.7	6.7	.0	.0	.0	.7	.0	79.9
W	1.5	7.1	3.0	.0	.0	.0	.0	11.7	10.2	.0	.0	.0	.0	.0	78.2
NW	6.0	12.9	3.6	.0	.0	.0	.0	22.5	16.5	.0	1.6	.0	.4	.0	59.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0	.0	100.0
TOT PCT TOT DBS:	8.8	0.3	6.3	•0	.0	•0	.0	21.0	10.5	.0	.8	•0	1.3	.0	66.4

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	Y TYPE					DTHER	WEATHER	PHEND	MENA	
HOUR (GM,T)	RAIN	RAIN	DRZL	FRZG	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	SIG WEA
00203 90300	15.0	8.3	3.3	.0	.0	.0	.0	26.7	13.3	:0	.0	•0	1.7	:0	60.0
12615 18621	8.6	5.2	7.8	.0	.0	.0	.0	18.8	7.8	.0	3.4	.0	3.1	.0	70.7
TOT PCT TOT DBS:	8.7	6.2	6.2	.0	.0	•0	.0	20.7	10.4	.0	.8	•0	1.2	.0	66,8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

				ED (KN				202						(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	DBS	FREQ	SPD	00	03	06	09	12	15	18	51
N NE	.2	2.1	2.6	2.4	1.1	.0		8.5	19.4	6.4	41.7			10.5	.0	10.1	6.8
	3.5	.4	.3	,3	• 1	.0		1.2	17.0	1.6	.0	.5		1.8	20.0	1.3	.5
SE	• 1	. 5	.2	,1	.0	.0		.9	10.3	.9	.0	.3	1,2	1.0	.0	.9	1.2
SE	.2	.8	. 8	.1	.0	.0		2.0	10.4	2.1	.0	2.5	2.3	1.6	.0		2.2
S	.6	3.4	3.6	1.7	.3	. 1		9.7	14.5	9.8	.0			12.1	30.0	7.6	
SW	. 8	5.4	6.6	3.7	1.3	. 5		18.2	17.2	21,3	11.1	16.5		15.0	10.0	17.6	
W	.7	7.3	10.7	7.2	3,4			29.7	19.0	26.3	38.9	29.9		29.0	7.5	30.8	
NW	. 5	6.8	10.9	7.2	2.9			28.7	19.1	31.4	8.3	31.2		26.9	32.5	28.6	
VAR	.0	.0	.0	.0		.0		.0									
CALM	1.2	•0	.0		•0	• 0			•0	•0	•0			.0	.0		.0
TOT OBS								1.2	0	3	.0	. 8	2,2	2.0	.0	1.5	. 3
	112	661	883	557	227	33	2473		17.8	374	9	371		396	10	651	339
TOT PCT	4.5	26.7	35.7	22.5	9.2	1,3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

7/	481	. 2	34

WND DIR	0-6	7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18
NE	1.0	2.5	3.1	1.3	.5		8.5	19.4	7.2		10.3	9.0
	.3	:4	.2		.0		1.2	17.0	1.6	.8	1.0	1.0
3E	.5	1.1	, 3	.0	.0		2.0	10.4	2.1	2.4	1.6	1.7
5	2.3	3.9	2.4	1.0	.1		9.7	14.5	9.5	9.9	12.5	8.5
SW	2.6	7.7	4,5	5.6	. 8		18.2	17.2	21.1	17.2	14.9	19.2
NW	2.9	9.6	9.6	5.0	1.6		29.7	19.0	30.8	31.6	28.5	30.0
VAR	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0
CALM	1.2						1.2	.0	.3	1.4	2.0	1.1
TOT DES	14,3	889	746	376	108	2473	100 0	17.8	383	694	406	990
TOT PCT	14,3	35.9	30,2	15.2	•••		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1906-1977 (QVER-ALL) 1869-1977

TABLE 4

AREA 0026 GULF OF PEILAS

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

					SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-57	55-33	34-47	48+	MEAN	PREQ	DBS
£0300	.3	2.3	31.6	33.9	20.9	9.7	1.3	17.6	100.0	383
60390	1.4	3.6	26.4	37.2	21.2	9.2	1.0		100.0	694
12615	2.0	4.7	26,3	32.3	25.1	6.9	.7		100.0	406
18657	1.1	2.9	24.4	36.8	23.0	9.9	1.0		100.0	990
TOT	90	82	661	883	557	227	33	17.8		2473
PCT	1.2	3.3	26.7	35.7	22.5	9.2	1.3		100.0	2413

TABLE

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													ADEC O					
			TOTAL BY WIN	D DIRE	MOUNT TION	(EIGHTHS) MEAN			PERCE	AND D	FREQUE	NCY OF	CEILIN	B BY	IND D	FT, NH	>4/8) ON	
WND DIR	0-2	3-4	5-7	nasca	DB5	COVER	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000	6500 7999	8000+		
N NE E SE S W W NA VAR CALM TOT DBS	1.0 3.0 1.6 1.8	1.7 .0 .0 1.4 2.8 2.0 3.4 .0	.3 .0 .6 4.0 5.7 6.8 7.0 .0 1.1	2.1 4.3 2.8 4.1 9.9 11.8	176	7.4 7.8 8.0 4.8 5.6 6.4 6.3	1.1 .6 .0 .0 .0	1.6	2.4 .1 .4 .3 .4 .7 .4 1.4 .0 .0	6.5 .0 .0 .4 1.6 4.3 3.7 .0 .0	3.7 .1 .0 .6 2.4 4.1 4.3 8.1 .0	2.8 1.1 .0 2.6 1.6 5.3 1.4	.0	.0	.00	000000000000000000000000000000000000000	5.7 .6 3.4 7.7 5.1 8.9	176
	,	41.4	24.0	21.1	100.0		1.7	1.7	6,3	16.5	24.4	14.8	1.1	-6	-0	0	33.0	100 0
	WND DIR NE ESE S W NW VAR CALM	NNE .00 NE .00 SE .66 S 1.00 SW 3.00 M 1.66 NAR .00 CALM .5	N .0 1.7 NE .0 .0 SE .6 .0 S 1.0 1.4 SW 3.0 2.8 W 1.6 2.0 VAR .0 .0 CALM .6 .0	N	N 0 1.7 3.6 19.0 NE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N	BY WIND DIRECTION MEAN CLOUD COVER	NO DIR 0-2 3-4 5-7 8 6 TOTAL CLOUD 149 NE 0 1.7 3.6 19.0 7.4 1.1 E 0 0 0 3 2.1 7.8 6 SE 0 0 0 4 8.0 0 S 1.0 1.4 4.0 2.8 5.0 0 S 1.0 1.4 4.0 2.8 5.0 0 NH 1.6 2.0 6.8 9.9 6.4 0 NH 1.6 2.0 6.8 9.9 6.4 0 VAR 0 0 0 1.8 6.3 0 VAR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NO DIR 0-2 3-4 5-7 8 6 TOTAL CLOUD 000 150 169 178 178 189 189 189 189 189 189 189 189 189 18	NO DIR 0-2 3-4 5-7 8 E TOTAL CLOUD 149 299 599 NE +0 -0 -0 -3 2.1 7.8 6 0 0 14 16 2.4 6 0 18 5	NO DIR 0-2 3-4 5-7 8 4 TOTAL CLOUD 000 150 300 600 149 299 599 999 NE + 0 -0 -0 -3 2.1 7.8 .6 .0 .0 .1 1.0 SE + 0 -0 -0 -3 4.8 .0 .0 .0 .4 .0 SE + 0 -0 -0 -3 4.8 .0 .0 .0 .4 .0 SE + 0 -0 -0 -3 4.8 .0 .0 .0 .4 .0 SE + 0 -0 -0 -3 4.8 .0 .0 .0 .0 .4 .0 SE + 0 -0 -0 -3 4.8 .0 .0 .0 .0 .4 .0 SE + 0 -0 -0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	NO DIR 0-2 3-4 5-7 8 & TOTAL CLOUD 000 150 300 600 1000 149 299 599 999 1999 1999 1999 1999 1999 1	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTMS) BY WIND DIRECTION MEAN NO 0-2 3-4 5-7 8 & TOTAL CLUUD OBS COVER NE 0 0 0 1.7 3.6 19.0 7.4 1.1 1.6 2.4 6.5 3.7 2.8 E 0 0 0 0 4 8.0 0.0 1.1 1.1 SE 0 0 0 0 4 8.0 0.0 0.0 4 0.0 0.0 S 1.0 1.4 4.0 2.8 5.5 4.1 5.4 0.0 0.7 7.4 1.1 2.6 N 1 1 2 2 8 5.7 4.1 5.4 0.0 0.7 7.1 1.6 4.1 2.6 NN 1 1 2 2 8 5.7 7.1 1.6 4.1 2.6 NN 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NO DIR 0-2 3-4 5-7 8 6 TOTAL CLOUD 000 150 300 600 1000 2000 3500 149 299 599 999 1999 3499 4999 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTMS) BY WIND DIRECTION MEAN HND DIR 0-2 3-4 5-7 8 & TOTAL CLUUD OBS COVER NE .0 .0 .3 2.1 7.8 .6 .6 .0 .1 .0 .1 1.1 .0 .0 E .0 .0 .0 .4 .8 .0 .0 .0 .1 .1 .0 .1 1.1 .0 .0 SE .0 .0 .0 .4 .8 .0 .0 .0 .1 .0 .0 .0 .0 .0 .0 .0 .0 SE .0 .0 .0 .6 .3 4.8 .0 .0 .0 .3 .0 .0 .0 .0 .0 .0 .0 .0 .0 SH 1.0 1.4 4.0 2.8 5.6 .0 .0 .0 .4 .2 .2 .2 .2 .0 .0 .0 NH 1.6 2.0 6.8 9.9 6.4 .0 .0 .7 1.4 4.1 1.6 .0 .0 NH 1.8 3.4 7.0 11.8 6.3 .0 .1 1.4 4.1 1.6 .0 .0 NH 1.8 3.4 7.0 11.8 6.3 .0 .1 1.4 4.3 4.3 5.3 6 .4 VAR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTMS) BY MIND DIRECTION MEAN MEAN NO 02 3-4 5-7 8	PET FREQ OF TOTAL CLUUD AMOUNT (EIGHTMS) NO 0-2 3-4 5-7 8 5 TOTAL CLUUD AMOUNT (EIGHTMS) NE 0 1.7 3.6 19.0 7.4 1.1 1.6 2.4 6.5 3.7 2.8 4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTHS) BY WIND DIRECTION MEAN NO 0-2 3-4 5-7 8 & TOTAL CLUUD AMOUNT (EIGHTHS) DBS CDVER NE .0 .0 .3 2.1 7.8 16 10 299 599 999 199 2499 4999 6499 7999 ANY HGT NE .0 .0 .3 2.1 7.8 16 10 299 599 999 199 2499 4999 6499 7999 ANY HGT NE .0 .0 .0 .4 8.0 10 11 11 10 28 10 200 10 11 10 10 10 10 10 10 10 10 10 10 1

TABLE T

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					VSBY (NA	1)			
	FILING	- OR	- OR	- DR	- DR	· DR	· OR	- OR	= OR
(1	FEETI	>10	>5	>2	>1	>1/2	>1/4	>5040	>0
	>6500	.0	.0	.0	.0	.0	.0	.0	.0
	>3000	.6	.6	.6	. 6	. 0	.6	.6	.6
	>3500	1.7	1.7	1.7	1.7	1.7	1.7		1.7
. OR	>2000	10.7	14.1	16.4	10.4	16.4	16.4	16.4	
. OR	>1000	26.6	35.6	40.1	40.1	40.1	40.1		16.4
	>600	36.2	48.6	55.9	57.1	57.1	57.1	40.1	40.1
	>300	36.7	50.8	60.5	63.3		37.1	57.1	57.1
- 18	>150	36.7	31.4			63.3	63.3	63.3	63.3
. nR		36.7		61.6	64.4	65.0	65.0	65.0	65.0
	TOTAL		51.4	62.1	65.5	66.7	66.7	66.7	66.7
	IDIAL	65	91	110	116	118	118	118	118

TABLE TA

PERCENTAGE FREE OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 08SCO TOTAL OBS

N	n	v	e		c	

PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1869-1977	TABLE 8	AREA 0026 GULF DF PEILA 47.05 76.4W
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		P	ERCENT	PREC	OF WING	DIRE	TH VAR	VS DCC	ALUES I	F VIS	IBILI	CURRENC TY	E DF
VSBY		N	NE	E	SE	5	SW	w	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT &	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	PCP	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
1/2<1		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT \$	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
	PCP	1.5	.4	.0	.0	.0	.0	.3	. 3	.0	.0	2.5	
142	NO PCP	.4	.0	.0	.0	.0	.0	.0	.4	.0	.0	. 8	
	TOT \$	1.9	.4	.0	.0	.0	.0	. 3	.7	.0	.0		
	PCP	3.2	.2	.0	.0	.0	1.3	.0	2.1	.0	.0	6.7	
2<5	NO PCP	.4	.0	.0	. 0	.7	1.1	. 3	.4	.0	.0	2.9	
	TOT \$	3.6	. 2	.0	.0	:7	2.3	, 3	2.5	.0	.0	9.7	
	PCP	1.1	.0	.0	.4	.0	.1	1.3	1.4	.0	.0	4.2	
5<10	NO PCP	4.0	1.3	.3	. 2	. 9	1.1	4,5	4.1	.0	.4	16.8	
	TOT %	5.0	1.3	.3	.6	. 9	1.2	5,8	5.5	.0	.4	21.0	
	PCP	2.5	.4	.0	.0	.0	.4	.8	2.1	.0	.0		
10+	NO PCP	9.3	1.3	.0	. 4	6.3	10.2	13.4	15.3	.0	2.1	58.4	
	TOT \$	11.9	1.7	.0	.4	6.3	10.6	14.3	17.4	.0	2.1	64.7	
	TOT 085												238
	TOT PCT	23.6	3.6	. 3	1.1	8.0	14.1	20.7	26.2	.0	2.5	100.0	

TABLE 9

									ISIBIL	•			
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	DBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	003
<1/2	4-10	.ŏ	.0	.0	.0	.0	.0	. 4	.0	.0	••	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT &	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
										1.00			
	0-3	.0	• 0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	1.2	• 0	.0	.0	.0	.0	.0	.0	.0		1.2	
	TOT %	1.2	.0	• 0	.0	.0	.0	.0	.0	.0	.0	1.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.4	•0	.0	.0	.0	.4	.0	.0	.0		. 8	
	11-21	1.0	.0	.0	.0	.0	.0	.0	.6	.0		1.6	
	22+	.4	.4	.0	.0	.0	.0	.3	.1	.0		1.2	
	TOT %	1.8	.4	.0	.0	.0	.4	. 3	.7	.0	.0	3.5	
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.3	•1	.0	.0	.3	.5	.0	1.2	.0	•••	2.4	
	11-21	.7	. 1	.0	.0	.0	. 8	.0	.4	.0		2.0	
	22+	2.4		.0	.0	.6	1.1	.3	. 8	.0		5.1	
	TOT %	3.3	• 2	.0	.0	. 9	2.4	. 3	2.4	.0	.0	9.4	
	0-3	.4	.0	.3	•2	.3	.0	.0	.4	.0	1.2	2.7	
5<10	4-10	1.5	.0	.0	:4	.3	.6	1.8	1.8	.0	1	6.3	
,,,,	11-21	1.1	.4	.0	.0	.0	.0	2.1	1.6	.0		5.1	
	22+	1.8	.8	.0	.0	.3	.5	2.0	1.8	.0		7.1	
	TOT \$	4.7	1.2	.3	.6	.9	1.1	5.8	5.5	.0	1.2	21.2	
	0-3					•	.4	.0	.9	•	2.0		
10+	4-10	.3	.0	.0	.0	.0	4.0			•0	2.0	3.5	
10+		4.9	1.1	•0	.0	2.5	4.8	5.0	6.9	.0		25.1	
	11-21	2.5	• 1	.0	.4	4.3	5.9	6.5	4.7	.0		24.3	
	22+	3.4	. • •	.0	.0	.0	3	2.6	4.6	.0		11.4	
	TOT \$	11.1	1.6	•0	.4	6.8	11.4	14.1	17.1	.0	2.0	64.3	
	TOT 085												255
	TOT PET	22.1	3.3	.3	1.0	8.5	15.2	20.9	25.6	.0	3.1	100.0	

NOVEMBER

PERIOD:	(PRIMARY)	1906-1977
	(DVER-ALL)	1869-1977

TABLE 10

AREA 0026 GULF DF PEILAS 76.4W

PERCENT	FREQUENCY (OF CEIL	ING HEIGHTS	(FEET, NH	>4/8)	AND
	DECURI	RENCE D	F NH <5/8 A	Y HOUR		

HOUR (GMT)	149	150 299	300	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL DBS
60300	4.2	2.1	6.3	14.6	22.9	18.8	2.1	.0	.0	.0	70.8	29.2	48
90300	.0	.0	.0	8.1	29.7	16.2	.0	.0	.0	.0	54.1	45.9	37
12615	.0	.0	10.0	18.0	32.0	14.0	2.0	.0	.0	.0	76.0	24.0	50
18621	2.0	3.9	5.9	21.6	9.8	7.6	.0	2.0	.0	.0	52.9	47.1	51
PCT	3	1.6	5.9	30	23.1	26	1.1	.5	.0	.0	119	36.0	186

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VS84	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
€0300	.0	3.2	3.2	12.7	17.5	63.5	63	00803	4,3	13.0	34.8	41.3	23.9	46
06609	.0	.0	.0	9.7	22.6	67.7	62	06609	.0	.0	20.0	37.1	42.9	35
12615	1.5	1.5	3.0	7.5	26.9	59.7	67	12815	.0	10.4	33.3	45.8	20.8	48
18621	.0	.0	7.6	7.6	16.7	68.2	66	18621	2.1	12.5	37.5	18.8	43.8	48
TOT	.1	1.2	3.5	24	20.9	167	258	TOT	1.7	17	37.2	63	57	177

TABLE 13

TABLE 14

	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY B	Y TEMP	TOTAL	PCT		PERCE	NT FR	EQUENC	Y OF 1	IND D	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	2.2	5,2	3,5	1.3	28	12.2	2.8	1.0	.3	.7	.7	1.6	3.6	1.1	.0	.4
50/54	.0	.0	.0	1.3	7.9	11.4	20.1	10.0	116	50.7	13.5	1.5	.0	.4	6.6	6.1		14.4	.0	.0
45/49	.0	.0	.0	.0	3.5		11.8	8,3	81		5.0	.4	.0	.0	3.9	6.2		7.9	.0	.4
40/44	.0	.0	.0	.0	.0		. 9	. 4	4	1.7	. 5	.0	.0	.0	.0	.4	.0	. 8	.0	.0
TOTAL	0	0	0	3	31	66	83	46	229	100.0		• •	••		•••				••	••
PCT	.0	.0	•0	1.3	13.5		36.2	20.1	•		21.9	2.9	.3	1.1	11.1	14.4	23.1	24.1	.0	.9

TABLE 15

TABLE 16

	MEANS,	EXTREME	SAND	PERCEN	TILES	OF TEM	P (DEG	F) B	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	61	58	55	48	43	39	37	48.5	383
90300	63	55	53	47	42	38	37	47.4	695
12815	64	56	54	48	43	41	38	48.5	405
18821	63	57	55	49	44	40	37	49.4	908
TOT	64	57	54	48	43	39	37	48.5	2391

HOUR (GHT)

0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL (GHT)

085

00603 .0 1.7 6.8 37.3 35.6 18.6 81 59

06609 .0 .0 15.7 13.7 49.0 21.6 83 51

12615 .0 .0 10.6 31.8 37.9 19.7 82 66

18621 .0 3.6 21.4 30.4 23.2 21.4 79 56

TOT 0 3 31 67 84 47 81 232

NOVEMBER

PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1869-1977

TABLE 17

AREA 0026 GULF OF PEILAS

PCT PREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	41	45	49 52	53	57	TOT	FOG	FOG
I'M' DIF		40	26		••			100
11/13	.0	.0	.0	.4	.9	3	.0	1.3
9/10	.0	.0	. 4	1.8	.4	6	.0	2.7
7/8	.0	.0	2.2	2.7	1.3	14	.0	6.2
6	.0	.0	.4	.4	.4	3	.0	1.3
i	.0	.0	1.8	1.8	. 9	10	.0	4.4
1	.0	.0	1.3	1.8	1.3	10	.0	4.4
- 7	.0	.4	1.3	1.3	*.4	8		3.5
3 2				1			.0	
2	.0	2.2	2.7	2.2	.4	17	.0	7.5
1	.0	.0	7.1	5.3	.0	28	.0	12.4
0	.0	2.2	6.2		.0	26	. 4	11.1
-1	.0	1.8	5.3	3.1	.0	23	.0	10.2
-2	.0	5.3	4.9	. 9	.0	25	.0	11.1
-3	.4	2.7	4.0	. 9	.0	18	.0	8.0
-4	.9	2.2	1.3	.4	.0	11	.0	4.9
-5	.0	2.7	2.7	.0	.0	12	.0	5.3
-6	.9	1.8	.0	.0	.0	6	.0	2.7
-7/-8	. 4	1.3	.0	.0	.0		.0	1.8
-9/-10	.4	.0	.0	.0	.0	i	.0	.4
-14/-10		.4			.0	i	.0	.4
-1-1-10	.0		.0		::			
TOTAL	7		94		14		1	225
		52		59	-	226		
PCT	3.1	23.0	41.6	26.1	6.2	100.0	.4	99.6

PERIOD: (DVER-ALL) 1963-1977

				PC	T FREQ	DF WIND	SPFED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT		
HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PCT		1-3	4-10	11-21	NE 22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0		.0	.0	.0	.0	.0	.0	.0
1-2	1.7	2.9	.7	.0	.0	.0	5.4		.0	.2	.0	.0	. 0	.0	. 2
3-4	.0	1.5	.7	.0	.0	.0	2,2		.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	6.9	1.0	.0	.0	7,8		.0	.0	.2	.0	.0	.0	. 2
7	.0	.0	.0	1.0	.0	.0	1.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	3.9	.0	.0	3,9		.0	.0	.0	1.0	.0	-0	1.0
10-11	.0	.0	.0	2.0	.0	.0	2.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.0	.0	.0	1.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	1.0	.0	1.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
61-70	.0	.0	, 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	5.4	8.7	8.8	1.0	.0	25,2		.0	.2	.5	1.0	.0	.0	1.7
												SE 22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		•0	.0	1.0	.0	••	.0	1.0
7	.0	.0	•0	.0	.0	.0	.0		.0	.0	.0	.0	• • •	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	••	.0	.0
10-11	.0	.0	.0	.0		.0	.0		•0	.0	.0	.0	••	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		:0	.0	.0	.0	00000000000	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0		.0		.0	.0	.0			.0			.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	:0		.0
33-40	.0		.0	.0	.0	.0	•0			.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	:0	.0	.0
49-60	.0		.0	.0	.0	.0	.0		.0	.0	•0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	•0	.0	.0	•0	.0	.0	.0		.0	.0	1.0	.0	.0	.0	1.0

PERIOD:	1045		1042 1						NOVE	IBER				4054	0024		PEILAS
PERTUUI	LUVER	-ALL/	1963-1	477				TABLE	18	(CONT)				AREA	47.	05 76	. 4W
				00	T 6860		Speen		AND		TION	VERSILE	HETC	HTS (FT)			
						OF WIND	SPEED	(4137	AND	01160	1104	VENSUS		H13 (F1)			
HGT	1-3	4-10	11-21	5 27-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0			.0	1.0	.0	.0	.0	.0	1.0	
1-2	.0	2.2	.7	.0	.0	.0	2.9			.0	2.9	.5	.0	.0	.0	3.4	
3-4	.0	.0	.7	.0	.0	.0	.7			.0	2.0		.0	.0	.0	6.1	
5-6	.0	.0	.0	.0	1.7	.0	1.7			.0	.0	4.2	.0	1.2	.0	5.4	
7	.0	.0	.0	.0	.0	.0	.0			.0	.0		1.2	.0	.0	1.2	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	. 0	.0	.0	
10-11	.0	.7	.7	.0	.0	.0	1,5			.0	.2	2	.2	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	1.2	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
23-25	.0	.0	• 0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
TOT PCT	.0	2.9	2.2	.0	1.7	.0	6,9			.0	6.1	9.1	1.5	2.5	•0	19.1	
													NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0			1.0	.0		.0	.0	.0	1.0	
1-2	.0	5.9	:7	.0	.0	.0	6.6			.2	3.4		.0	.0	.0	4.9	
3-4	.0	1.0	1.7	.0	.0	.0	2.7			.0	4.4		1.0	.0	.0	9.6	
5-6	.0	. 0	1.7	.0	.0	.0	1,7			.0	1.0		2.0	.0	.0	4.7	
7	.0	.0	.0	1.7	.0	.0	1,7			.0	.0		.0	.0	.0	1.0	
8-9	.0	1.0	.0	.0	.0	.0	1.0			.0	.0		.0	.0	.0	1.0	
10-11	.0	1.0	.0	2.2	.0	.0	3,2			.0	.0		2.5	1.0	.0	3.4	
12	.0	.0	.0	.7	.0	.0	.7			.0	.0		.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.7	.0	.7			.0	.0		1.0		.0	1.0	
17-19	.0	.0	.0	.0	1.0	.0	1,0			.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	. 0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	0	.0	.0	
TOT PCT	.0	8.8	4.2	4.7	1.7	.0	19.4			1.2	8.8	9.1	6.6	1.0	.0	26.7	100.0

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	1.0	1.9	.0	.0	.0	.0	2.9	003
1-2	1.9	19.2	3.8	.0	.0	.0	25.0	
3-4	.0	8.7	12.5	1.0	.0	.0	22.1	
5-6	.0	1.0	14.4	2.9	2.9	.0	21.2	
7	.0		1.0	3.8	.0	.0	4,8	
	.0				.0			
8-9	.0	1.0	1.0	4.8	.0	.0	6.7	
10-11	.0	1.9	1.0	6.7	1.0	.0	10.6	
12	.0	.0	.0	1.9	.0	.0	1.9	
13-16	.0	.0	.0	1.0	2.9	.0	3.8	
17-19	.0	.0	.0	.0	1.0	.0	1.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	,0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
		• •			.0	.0	• • •	
41-48	.0	.0	.0	.0			.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
				• •				104
TOT PCT	2.9	33.7	33.7	22.1	7.7	.0	100.0	

• PERIO	D: (D	ER-ALL)	195	1-1977					TABLE	19												
					PERCEN	T FRE	QUENCY	0F WA	VE HE I	GHT (F	1) VS	MAVE PI	RIGO	SECON	120							
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN	
<6	.0	5.9	6.9	4.4	1.3	3.8	.0	.6	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	5	
6-7	.0	.6	2.5	7.5	3.1	1.3	8.8	1.3	1.3	1.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	46		
8-9	.0	.0	.0	.0	5.6	2.5	2.5	4.4	1.9	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	29	10	
10-11	.0	.0	.0	.0	.6	3.8	2.5	.0	1.9	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	15	11	
10-11	.0	.0	.0	.0	.0	1.9	3.1	1.3	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	11	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	-	
INDET	1.9	.6	.0	1.3	.6	.0	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7	
TOTAL	3	13	15	21	18	21	33	14	14	4	3	1	0	0	0	0	0	0	0	160		
PCT	1.9	8.1	9.4	13.1	11.3	13.1	20.6	8.8	8.8	2.5	1.9	6	.0	.0	.0	.0	.0	.0	.0	100.0		

TABLE 1

AREA 0026 GULF OF PEILAS 47.05 76.2W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

					-	400									
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR			
N	11.5	.0	6.9	.0	.0	.0	.0	18.3	6.4	:0	8.7	.0	1.8		64.7
NE	54.2	.0	16.7	.0	.0	.0	.0	70.8	.0		4.2	.0	.0	.0	25.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	.0	.0	.0	96.1
SW	.0	2.3	4.0	.0	.0	.0	.0	6.2	11.3	.0	.6	.0	2.8	.0	79.1
W	5.4	8.1	11.1	.0	.0	.0	1.3	25.9	5.4	.0	.0	.0	5.1	.0	63.6
NW	12.3	5.8	6.1	.0	.0	.0	.0	24.3	8.8	.0	3.5	.0	.0	.0	63.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	8.2	4.1	6.9	.0	.0	.0	.3	19.6	6.9	.0	3.1	•0	2.1	.0	68.4

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNDW	
00603 C6609 12615 18621	10.7 8.1 8.6 10.1	2.7 6.8 4.9 1.4	9.3 6.8 6.2 4.3	.0	.0	.0	.0 1.2 .0	22.7 21.6 21.0 15.9	1.3 10.8 7.4 7.2	.0	2.7 4.1 3.7 1.4	.0 .0	2.7 1.4 2.5 1.4	.0 .0 .0	70.7 62.2 65.4 72.5
TOT PCT	9.4	4.0	6.7	•0	•0	•0	. 3	20.4	6.7	.0	3.0	•0	2.0	.3	67.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3		11-21		0TS) 34-47	48+	TOTAL	PCT	MEAN	00	03	06	HDUR 09	(GMT)	15	18	21
							OBS	FREQ	SPD	••	•••			••	.,		
						_											
N	• 2	2.8	4.7	3.1	1.4			12.4	19.7	11.2	25.0			12.5		11.9	11.5
NE	.1	.4	.5	.3	• 1	. 1		1.4	17.8	1.4	.0	. 8	1.3	1.7	.0	1.4	2.0
E	.0	.1	.1	.0	.0	.0		.2	9.9	.0	.0	.0	.0	. 2	.0	. 3	.5
E SE	.0	. 8	.4	. 2	.0	.0		1.5	12.6	. 9	.0	1.4	1.9	2.2	.0	1.8	. 3
c		3.5	4.3	1.4					13.6			9.8	10.2		8.3		
3	.6				• 1	.0		9.9		10.2	10.9			11.8		7.5	11.5
SW	.3	6.4	7.7	3,5	. 8			18.8	15.5	21.4	4.7	20.3	20.6	17.5	.0	14.7	22.9
W	.7	6.9	10.2	5.7	1.2	. 1		24.8	16.5	23.1	25.0	24.2	24.5	24.3	18.8	29.2	20.2
NW	.4	6.8	14.2	7.4	1.2	. 2		30.2	17.2	31.6	28.1	28.1	27.6	29.4	41.7	31.8	31.0
VAR	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	0	.0	.0	.0	.0
CALM	.9	••		• • •	••	•			.0	.3	6,3	1.4	1.2		.0	1.3	. 5
TOT OBS	75	658	999	514	113	16	2375	• •	16.5	377	16	361	321	389	12	597	302
						10	2313		10.5								
TOT PCT	3.2	27.7	42.1	21.6	4.8	. 7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

					TAR	LE 3A						
WND DIR	0-6	WIND 7-16	SPEED 17-27		41+	TOTAL	PCT FREQ	MEAN SPD	00	HDU!	12 15	
N NE	1.0	4.7	3,8	2.1	.8		-12.4	19.7	11.8	13.3	13.0	11.8
	.1	.1	.3	.0	.0	٠	1.4	17.8 9.9 12.6	1.3	.0	1.7 .2 2.1	1.6
SE S SW	2.7	5.0	2.8 5.8	1.9	.0		18,8	13.6	10.2	10.0	11.7	8.9
NW	2.7	10.7	12.0	3.2	:3		30.2	17.2	23.2	27.9	24.1	31.6
CALM TOT OBS	284	991	784	.0 277	.0	2375	:9	16.5	.0 .5 393	1.3	.0 .5	.0 .9
TOT PCT	12.0	41.7	33.0	11.7	1.6		100.0			100.0		

DECEMBER

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1860-1977

TABLE 4

AREA 0026 GULF OF PEILAS 47.05 76.28

PERCENTAGE	FREQUENCY	OF	MIND	SPEED	84	HOUR	(GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	085
£0300	.5	1.8	27.5	44.0	21.1	4.3	. 6	16.2	100.0	393
60360	1.3	1.5	30.4	41.9	20.1	4.4	.4	16.0	100.0	682
12615	.5	3.2	31.7	41.9	18.2	3.5	1.0	15.6	100.0	401
18621	.9	2.7	24.0	41.4	24.4	5.8	.7	17.3	100.0	899
TUT	21	54	658	999	514	113	16	16.5	1.00	2375
PCT	.9	2.3	27.7	42.1	21.6	4.8	.7		100.0	

				TOPE 3								17	TREE O					
P	CT FRE			UIREC		EIGHTHS)			PERCEN	TAGE F	REQUEN	ICY OF	CEILIN NH 45/	G HEIG	HTS (T, NH	>4/8) DN	
WND DIR	0=2	3-4	5-7	8 E	TOTAL	CLOUD	000 149	150 299	300 599	999	1000	2000 3499	3500 49 9 9	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	1.7	1.0	6.3	9.4		6.6	1.0	.8	1,1	2.6	4.4	1,8	.4	.0	.0	.9	5,2	
NE	.0	.0	. 5	1.9		7,6	.5	.0	.0	. 9	.4	.1	.0	.0	.0	.0	.5	
5	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5 E	.0	. 1	.0	.0		3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
S	2.0	1.5	2.0	1.1		4.0	.0	.0	.0	.7	1.0	1.1	. 0	. 3	.0	. 0	3,5	
SW	1.7	1.2	6.6	5.4		6.0	.0	.1	2.7	1.7	4.1	2.1	.0	. 5	.2	. 0	3.4	
W	.7	.0	9.2	15.2		7.2	. 4	.3	3.7	9.7	7.2	3.2	. 4	.0	.6		3,1	
NW	.3	1.8	6.6	20.6		7.2	. 5	.4	. 9	4.4	13.1	3,3	. 8	.0	.0	. 3	5.4	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	0.	.0	.0	.0	.0	
CALM	.0	.4	.8	2.0		7.2	. 4	.0	.0	1.2	.4		4	.0	.0	. 0		
TOT DBS	16	15	79	138	248	6.7	• 7		21	43	76	30	• •	,,	.,		: .	248
TOT PCT	6.5	6.0	31.9	55.6	100.0	•	2,8	1.6	8,5	17.3	30.6	12.1	2.0	, i		1.6	21.8	100.0

CHAIN ATTUE DET POP		etuin TANEDUC	
CUMULATIVE PCT FRE	a ur	2 THAT I WHERA	UCCURRENCE
OF CEILING HEIGH	P IN	H SA/RI AND V	CRY /NH

					VSBY (NM				
	EILING	- OR	. OR	• 09	- OR	- DR	- DR	- 00	- DR
								- DR	
()	FEFTI	>10	>5	>5	>1	>1/2	>1/4	>50YD	>0
DR	>6500	1.6	2.0	2.8	2.8	2.8	2.8	2.8	2.8
DR	>5000	2.4	2.8	3.5	3.5	3.5	3.5	3.5	3.5
	>3500	3.9	4.3	5.1	5.1	5.1	5.1	5.1	5.1
	>2000	11.8	15.7	16.9	16.9	16.9	16.9	16.9	16.9
	>1000	22.8	40.9	45.7	46.5	46.9	46.9	46.9	46.9
	>600	29.5	55.9	63.0	64.6	65.0	65.0	65.0	65.0
	>300	33,9	63.0	71.3	72.8	73.2	73.2	73.2	73.2
	>150	35,0	64.6	72.8	74.4	74.8	74.8	74.8	74.8
DR	> 0	35,0	65.4	75.6	78.3	78.7	78.7	78.7	78.7
	TOTAL	89	166	192	199	200	200	200	200

TOTAL NUMBER OF DBS1 254 PCT FREQ NH <5/81 21.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

4.7 1.8 4.0 5.8 5.8 7.9 10.4 12.2 45.0 2.5 278

			R

			DECEMBER	
PER IOD:	(PRIMARY) (OVER-ALL)	1907-1977 1860-1977	TABLE 8	AREA 0026 GULF DF PEILAS 47.05 76.2W
			PERCENT PREO OF WIND DIRECTION VS OCCURRENCE OR NON-(PRECIPITATION WITH VARYING VALUES OF VISIBIL	DCCURRENCE OF

		PI	ERCENT	PRECI	PITAT	D DIRE	TH VAR	VS DCC	ALUES	F VIS	IBILIT	URRENC	E OF
VSBY		N	NE		SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	,3	.0	.0	.0	.3	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT \$.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	PCP	.9	.0	.0	.0	.0	.3	.2	1.3	.0	.0	2.7	
1<2	NO PCP	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	, 3	
	TOT \$	1.2	. 1	.0	.0	.0	.3	. 2	1.3	.0	.0	3,1	
	PCP	1.5	.4	.0	.0	.0	.0	1.2	3.0	.0	.0	6,2	
2 < 5	NO PCP	2.0	.0	.0	.0	.0	.3	, 3	1.8	.0	.0	4.5	
	TOT \$	3,5	.4	.0	.0	.0	.3	1.5	4.8	.0	.0	10.7	
	PCP	. •	.7	.0	.0	.0	.6	4.0	2.0	.0	.0	8,2	
5<10	NO PCP	4.0	.1	.0	.0	. 3	3.3	6.1	8.3	.0	1.4	23.4	
	TOT \$	4.9	. 8	.0	.0	.3	3.9	10.1	10.3	.0	1.4	31.6	
	PCP	.0	.3	.0	.0	.0	.0	.9	.9	.0	.0	2.1	
10+	NO PCP	9.1	.4	.0	. 1	6.4	10.7	12,5	12.1	.0	1.0	52.2	
	TOT &	9.1	. 8	.0	.1	6.4	10.7	13.3	13.0	.0	1.0	54.3	
	TOT 085												291
	TOT PCT	18.7	2.1	.0	. 1	6.6	15.2	25,5	29.4	.0	2.4	100.0	

....

			P						ISIBIL		ED		
VSBY (NM)	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$	•0	•0	•0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0		. 3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	42+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	•0	.0	.0	.0	.3	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	22+	1.2	• 1	.0	.0	.0	.3	.2	.6	.0		2.4	
	TOT %	1.2	•1	•0	.0	.0	.3	.2	1.3	.0	.0	3.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	1.1	.0	.0	.0	.0	.0	.0	.9	.0		2.1	
	11-21	.9	.0	.0	.0	.0	.3	1.0	2.1	.0		4.5	
	22+	1.5	.4	.0	.0	.0	.0	.5	1.7	.0		4.1	
	TOT %	3.5	.4	.0	.0	.0	.3	1.5	4.8	.0	.0	10.7	
	0-3	.0	.0	.0	.0	.0	.1	.3	.0	.0	1.4	1.7	
5<10	4-10	1.3	.3	.0	.0	.3	1.3	3.7	1.7	.0	-	8.6	
	11-21	2.2	.4	.0	.0	.0	1.1	3.9	6.1	.0		13.7	
	224	1.4	.0	.0	.0	.0	1.4	2.3	2.5	.0		7.6	
	TOT \$	4.9	.8	.0	.0	.3	3.9	10.1	10.3	.0	1.4	31.6	
	0-3	.3	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.4	
10+	4-10	3.3	.3	.0	.1	2.1	2.1	2.9	2.9	.0		13.7	
	11-21	4.1	.4	.0	.0	3.6	6.0	8.4	8.0	.0		30.6	
	42+	1.4	.0	.0	.0	.7	2.5	2.0	2.1	.0		8.6	
	TOT \$	9.1	.8	.0	•1	6.4	10.7	13.3	13.0	.0	1.0	54.3	
	OT 085												291
	OT PET	18.7	2.1	.0	.1	6.6	13.2	25.5	29.4	.0	2.4	100.0	

DECEMBER

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1860-1977

TABLE 10

AREA 0026 GULF OF PEILAS 47.05 76.28

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	3.0	1.5	6.1	19.7	28.8	9.1	1.5	1.5	3.0	1.5	75.8	24.2	66
06609	4.8	1.6	3.2	17.5	39.7	4.8	1.6	.0	.0	1.6	74.6	25.4	63
12615	1.4	.0	15.3	19.4	22.2	18.1	1.4	1.4	.0	2.8	81.9	18,1	72
18821	6.6	3.3	6.6	13.1	26.2	13.1	3,3	.0	.0	1.6	73.8	26,2	61
TOT	10	1.5	21	17.6	76	30	1.9	. 8	2	1.9	201	23.3	262

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(NM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	IGES OF NH >4/8	VSBY (NM)	AND/DR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GHT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00403	•0	.0	4.0	9.3	37.3	49.3	75	00803	3.1	10.8	40.0	41.5	18.5	65
90360	•0	1.4	1.4	12.2	31,1	54.1	74	90300	5.0	11.7	38.3	41.7	20.0	60
12615	.0	.0	4.9	12.3	34,6	48.1	81	12815	1.4	17.4	43.5	40.6	15.9	69
18621	•0	.0	4,3	11.6	23,2	60.9	69	18821	6.7	16.7	35.0	40.0	25.0	60
TOT PCT	.0	.3	3.7	34	31.8	158	299	TOT	10	36	100	104	50 19.7	254

TABLE 13

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N NE E SE S SM W NN VAR CALM

11.5 1.5 .0 .0 3.2 3.2 4.2 5.7 .0 1.6

7.5 .2 3 .1 2.2 7.8 12.2 17.6 .0 .8

6 .4 .0 .0 .9 4.2 3.9 4.7 .0 .0

.0 .0 .0 .0 .0 .0 .0 .4 .4 .0 .0

20.4 2.1 .3 .1 6.2 15.9 22.0 30.2 .0 2.8

TABLE 15

MEANS, EXTREMES AND PFRCENTILES OF TEMP (DEG F) BY HOUR

MAX 99% 95% 50% 5% 1% MIN HEAN TOTAL

085
64 60 57 51 46 44 43 51.3 386
63 58 55 50 45 43 41 50.1 681
64 59 57 51 46 43 43 51.4 393
66 61 58 52 46 44 39 52.1 825
66 61 57 51 45 44 39 51.2 2265

TABLE 16

DECEMBER

PERIOD:	(PRIMARY)	1907-1977
	(DVER-ALL)	1860-1977

TABLE 17

AREA 0026 GULF OF PEILAS 47.05 76.2W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

IR-SEA	37	41	45	49 52	53	57	61	TOT	FOG	WO
MP DIF	40	44	**	32	50	60	04		POG	FOG
11/13	.0	.0	.0	.0	.0	::	.0	1	.0	.4
9/10	.0	.0	.0	.0	.0	.4	. 7	3	.0	1.1
7/8	.0	.0	.0	- 4	.7	1.4	.4	8	.0	2.9
5	.0	.0	.0	.0	1.4	.7	.4	7	.0	2.5
5	.0	.0	.0	.0	2.5	2.5	.4	1 3 8 7 15	.0	5.4
4	.0	.0	.0	.4	1.8	2.2	.7	14	.0	5.1
3		000000000000000000000000000000000000000	.0	.0	4.0	1.1	074447040004	14	.000000074477000400008	12.5 5.4 5.1 6.9 10.6 10.8 12.3 9.7 4.2 4.2
2	.0	.0	.0	2.2	4.7	2.2	.4	21	.7	6.9
1	.0	.0	.0	3.6	5.1	2.2	.0	30 48	.4	10.5
0	.0	.0	1.4	6.9	7.2	1.8	.0	48	.7	16.6
-1 -2 -3 -4 -5	.0	.4	1.8	4.3	4.7	.4	.0	32	.7	10.8
-2	.0	.0	1.1	7.9	2.5	.4	.4	34	.0	12.3
-3	.0	.0	1.8	6.9	1.1	4400000	.0	27	.0	9.7
-4	.0	.7	1.8	2.2	.0	.0	.0	13	.4	4.3
-5	.0	.0	1.1	.4	.7	.0	.0	6	.0	2.2
-6	.4	.0	.0	.0	.0	.0	.0	1	.0	.4
-7/-8	.0	.0	25	.4	.0	.0	0	1	.0	.4
TOTAL	1		25		101		9		8	269
		1.1		100		13.7		277		
PCT	.4	1.1	9.0	36.1	36.5	13.7	3.2	100.0	2.9	97.1

PERIOD: (DVER-ALL) 1963-1977

TABLE 18

				PC	T FREQ (F WIND	SPEED	(KTS)	AND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1,3		.0	. 8	.0	.0	.0	.0	. 8
1-2	.0	1.5	3.0	.0	.0	.0	4,5		.0	.0	.2	.0	.0	.0	.2
3-4	.0	1.3	.0	1.5	.0	.0	2,8		.0	.0	.0	.8	.0	-0	.8
5-6	.0	.8	1.3	2.8	.0	.0	4,9		.0	.0	. 8	.0	.0	.0	. 8
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.0	.6		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.6	1.3	.0	2,5		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32 33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+		.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	5.5	4.9	0	.0	16.7		.0	.0	.0	.0	.0	.0	.0
101 761	.0	4.9	2.7	4.9	1,3	•0	10.7		•0		.9	.8	.0	.0	2.5
				E								SE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	•0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	•0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	•0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	•0	.0	.0	.0		•0	.0	.0	.0	,0	.0	.0
71-86	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	•0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	•0	.0		.0	.0	.0	.0	.0	.0	.0

PERIOD:	1045								ECEMBER					0024	GULF DF	
PERIOU	LUVE	-ALL/	1403-1	477				TABLE	18 (CONT	,			AHEA	47.		.ZW
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION	VERSUS S	EA HEIG	HTS (FT)			
				s								SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0		.2	.0	.0	.0	.0	.0	.2	
1-2	.0	6	.0	.0	.0	.0	2.7		.0	1.7	1.9	.0	:0	.0	2.7	
5-6	.0	1.1	.6	.0	.0	.0	2.6		.0		1.3	.0	:0	.0	2.1	
7	.0	.8	:8	.0	:0	.0	1.5		:0	:0	.0	:0	:0	.0	.0	
8-9	.0	.8	1.5	.0	.0	.0	2,3		.0	.0	. 8	2.3	:0	.0	3.0	
10-11	.0		.0	. 8	.0	.0			.0	.0	.2		. 8	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0		, ŏ	.0	.0	. 8	.0	.0	. 8	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	• 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
874	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	. 0	
TOT PCT	.0	3.2	3.6	1.5	.0	.0	8,3		.2	2.8	5.1	4.5	. 8	.0	13.4	
												NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	.0	.0	.0	.0	.0	. 6		.0	.9	.0	.0	.0	.0	. 9	
1-2	.0	2.1	2.8	.0	.0	.0	4.9		.0	.9	2.8	.0	.0	.0	3.8	
3-4	.0	.6	3.2	. 8	.0	.0	4,5		.0	1.9	7.0	. 8	.0	.0	9.7	
5-6	.0	.0	4.9	.6	.0	.0	5,5		.0	.0	3.2	2.7	.0	.0	5.9	
7	.0	.0	2.8	1.5	.0	.0	4.4		.0	.0	.2	3.8	.0	.0	4.0	
8-9	.0	.0	.0	1.5	.0	.0	1,5		.0	. 8	.9	.8	.0	.0	2.5	
10-11	.0	.0	.6	.0	.0	.0	.6		.0	.0	4.0	.2	. 2	.0	4.4	
12	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	. 8	.0	.0	.8	
13-16	.0	. 8	.0	.0	.0	.0	. 8		•0	.0	.0	.0	. 8	.0	. 8	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	:0	.0	•0	:0	.0	.0		.0	.0	.0	.0	:0	.0	.0	
26-32	.0	:0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.ŏ	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	. 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	. 0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	3.4	14.4	4.4	.0	.0	22.7		.0	4.5	18.2	8.9	. 9	.0	32.6	96.2

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
< 1	4.5	3.0	.0	.0	.0	.0	7.6	003
1-2	.0	6.8	9.8	.0	.0	.0	16.7	
3-4	.0	6.1	12.9		.0	.0	23.5	
5-6	.0	. 8	12.1	6.8	.0	.0	19.7	
7	.0	. 8	3.8	5,3	.0	.0	9.8	
8-9	.0	1,5	3.8		.0	.0	9.8	
10-11	.0	.0	5.3	2.3	2.3	.0	9.8	
12	.0	.0	.0	1.5	.0	.0	1.5	
13-16	.0	. 6	.0	.0	. 8	.0	1.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	. 0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
							•	132
TOT PCT	4.5	19.7	47.7	25.0	3.0	.0	100.0	

PERIO	D: (QV	ER-ALL)	195	4-197	,				TABLE	19											
					PERCEN	T FRE	QUENCY	OF WA	VE HEI	GHT (F	T) VS	WAVE P	ERIOD	(SECON	08)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	2.0	2.5	5.5	3.0	4.0	1.5	5.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	6
6-7	.0	.0	2.5	8.0	5.5	5.0		.5	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	50	7
8-9	.0	.0	2.5	5.5	3.5	3.0		3.5	3.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	8
10-11	.0	.0	4.0	1.0	1.0	1.5		2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
8-9 10-11 12-13	.0	.0	1.0	1.0	.0	1.0		1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
>13	.0	.0	.0	.0	.0	.0		.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	3	15
>13 INDET	4.0	.5	. 5	.5	.0	.0		.5	. 5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	
TOTAL	12	6	32	38	28	24		17	14	1	2	0	0	0	0	0	0	0	0	201	7
PCT	6.0	3.0	15.9	18.9	13.9	11.9		8.5	7.0	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1905-1978 (OVER-ALL) 1854-1978

TABLE 1

AREA 0026 GULF DF PEILAS 47.15 76.2W

PERCENT FREQUENCY OF WEATHER DECURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	18.1	4.4	10.0	.0	.2	.0	.0	32.2	11.0	.2	3.4	• 2	.4	.1	52.5
NE	22.0	3.9	6.4	.0	.0	.0	.0	32.3	10.8	.2	1.9	.0	.0	.0	54.9
E	7.4	5.8	7.2	.0	.0	.0	.0	20.4	4.0	.0	2.1	.0	.0	.0	56.8
SE	6.5	4.5	.5	.0	.0	.0	.0	10.6	3.6	.0	3.3	.0	.0	.0	74.1
S	4.6	.7	2.2	.0	.0	.0	.3	7.7	4.9	.0	1.2	.0	1.0	.0	85.2
SW	2.7	1.7	4.3	.0	.4	.0	.1	9.2	7.9	.1	2.0	. 1	1.1	.0	79.7
W	6.1	0.3	4.9	.0	.0	.0	1.3	18.6	13.5	.3	1.8	.4	.7	.0	64.8
NW	12.2	0.5	5.3	.0	.0	.0	.4	24.3	8.4	.3	4.6	.2	.3		62.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3	.7	1.4	.0	.0	.0	.0	6.4	4.9	:0	3.5	.0	.0	.0	76.8
TOT PCT TOT OBS:	10.3	4.3	5.6	.0	•1	.0	.4	20.5	9.5	.2	2.8	•2	.6	•	66.3

TABLE 2
PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

							100000000000000000000000000000000000000	1100		-	-	35			
			p	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	11.3 9.2 11.6 10.4	4.1 5.0 3.4 4.1	5.3 5.7 6.1 5.9	.0	.2	.0	.0 .3 .7	20.7 20.4 21.7 20.6	8.5 10.2 10.2 9.3	.2 .2 .3	2.7 1.9 2.9 3.7	.1 .3 .2	.5	.1 .0 .0	67.1 66.6 64.1 65.5
TOT PCT	10.6	4.2	5.7	.0	.1	•0	.4	20.8	9.6	.2	2.8	•2	.6	•	65.8

TABLE 3
PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	NO SPE	ED (KN	OTS)								HOUR	(GMT)			
WND DIR	0-3				34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N NE	.5	2.6	3.9	2.9	1.4			11.6	19.7	11.5		11.6	9.8	11.6	20.1	12.9	3.2
E	. 2	1.0	.6	.1				2.0	10.3	2.0	.8	2.1	2.1	2.1	1.3	1.8	1.7
SE	.3	1.7	1.5	.5	• 1			4.1	12.4	4.2	.0	4.2	4.1	4.6	2.8	3.9	4.2
S	.7	3.9	4.2		.4	. 1		11.1	14.7	11.1	8.1	10.9	11.5	12.7	10.8	9.7	11.4
SW	.5	5.3	6.6	3.9	1.3	. 3		17.9	17.5	18.2	5.9	18,3	19.2	18.3	9.5	15.5	20.0
W	.6	5.3	8.5	5.9	2.0	. 4		22.7	19.0	22.0	23.3	23.0	24.1	21.4	21.1	23.6	21.8
NW	. 5	5.6	9.6	6.8	2.7	.5		25.8	19.8	26.0	31.4	25.3	24.7	23.9	30.8	27.8	25.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0
CALM	1.4							1.4	.0	1.7	2,6	1.4	1.3	1.6	.9	1.4	. 9
TOT DBS							27818		17.7	4509	75	4353	3769	4505	87	6718	3802
TOT PCT	5.0	26.6	36.0	22.5	8.2	1.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

					TAB	LE 3A						
WND DIR	0-6	7=16	SPEE0 17-27	(KNOTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00	06 09	12 15) 18 21
N	1.6	3.5	3,6	2.2	.8		11.6	19.7	11.7	10.8	11.8	12.2
NE	. 8	1.3	. 8	.4	.1		3.4	15.2	3.5	3.2	3.8	3.4
	.6	.9	. 3	.1			2.0	10.3	2.0	2.1	2.1	1.8
SE	1.0	1.9	1.0	.2			4.1	12.4	4.1	4.1	4.6	4.0
5	2.2	4.8	2.9	1.0	.3		11.1	14.7	11.0		12.6	10.3
2	2.3	7.3	5.0	2.6	.7		17.9	17.5	18.0	18.8	18.2	17.1
W	2.4	7.9	7.7	3.7	1.0		22.7	19.0	22.0	23.5	21.4	23.0
NW	2.4	8.5	8.7	4.7	1.5		25,8	19.8	26.1	25.0	24.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.7	1.4	1.6	1.2
TOT OBS				212		27818		17.7	4584	8155		10520
TOT PCT	14.8	36.1	29.8	14.9	4.4		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1905-1978 (DVER-ALL) 1854-1978

TABLE 4

AREA 0026 GULF OF PEILAS 47.15 76.2W

PERCENTAGE	FREQUENCY	DF	WIND	SPEED	BY	HOUR	(GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HUUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
60300	1.7	3.8	27.3	35.5	22.2	7.9	1.6	17.4	100.0	4584
06609	1.4	3.3	26.8	36.8	21.9	8.2	1.0		100.0	8122
12615	1.6	4.1	28.1	36.0	21.9	6.6	1.7	17.0	100.0	4592
18821	1.2	3.4	25,6	35.5	23.3	9.0	2.0		100.0	10520
TUT							-	17.7		27818
PCT	1.4	3.6	26.6	36.0	22.5	8.2	1.8		100.0	

	TABLE 5										T	ABLE 5						
	PCT FRI			OTREC		(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN	B BY	IND D	T, NH :)4/8)]N	
WND DIR	0-2	3-4	5-7	8 & 08500	TOTAL	COVER	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999		NH 45/8 ANY HGT	
N	1.0	1.1	3.0			7.0	.9	.7	1.9	3.8	4.8	2.4	.6	.1		3	4.1	
NE	.6	.3	.9	3.0		6.7	.1	. 1	. 3	1.0	1.1	. 7	. 2	. 0			1.3	
E	.4	.3	.4	. 8		4.4			. 1	.1	.3			.0	.0	.0	, 9	
SE	.9	. 4	.6	. 8		4,5	.1	.0	.1	. 2	.5	. i	.1	.0		.0	1.7	
S	2.5	1.8	3.6	2.7		4.8	.1		. 5	1.2	2.1	1.1	.3	.1		.0		
SW	1.5	1.9	5.4	4.4		5,7	.1	.1	.7	2.2	2.8	2,1	.4	.1			4.5	
W	1.1	2.3	7.4	9.8		6,5	.5	.3	1.4	4.4	4.6	2.3	1.0	.1	• ;	• 1	5.8	
NW	1.2	2.0	6.9	14.0		6.7	. 7	. 9	1.9	4.4	6.4	2.9	.8	.1	.1	• 1	5.9	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0		. 1		
CALM TOT OBS	. 2	.2	. 8	1.1	2430	5.8	.1	.0	, 3	.4	.6	.2	.1	.1	.0	:0	.7	24.22
TOT PCT	9.4	10.2	29.9	50.4	100.0		2.5	2.1	7,3	17.5	23.1	12.2	3.4	. 5	.4	.6	30.1	100.0

TABLE 7

CUMULATIVE	PCT FRE	3 SF	SIMULTANEOUS	DCCURRENCE
OF CEILI	NG HETGH	r (N	H >4/81 AND V	SRV INMI

				VSBY IN	1)			
CEILING	 OR 	- DR	- DR	- DR	- OR	- OR	- DR	= OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
- OR >6500	.5	.7	.8	.9	.9	.9	.9	.9
■ DR >5000	. 8	1.1	1.3	1.4	1.4	1.4	1.4	1.4
■ R >3500	2.3	3.6	4.1	4.5	4.6	4.6	4.6	4.6
■ DR >2000	9.2	14.7	16.2	16.7	16.7	16.8	16.8	16.8
■ NR >1000	21.2	34.8	38.9	39.7	40.0	40.1	40.1	40.1
■ OR >600	29.1	48.6	55.6	57.0	57.7	57.8	57.8	57.8
■ DR >300	31.8	! 5	62.0	64.0	64.8	64.9	65.0	65.0
. OR >150	32.2	34.9	64.0	66.1	67.0	67.1	67.1	67.1
. OR > 0	32.4	55.6	65.6	68.1	69.3	69.8	69.9	69.9

TOTAL NUMBER OF DBS: 2467 PCT FREQ NH C5/8: 30.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD DBS 4.6 3.4 6.4 7.1 7.9 7.4 10.2 11.0 40.0 1.9 2663

N	IN	u	A	

PERIOD:	(PRIMARY)	
	(DVER-ALL)	

	_	_		_	_
- 1	TΔ	R	L	E	8

AREA	0026	GULF	OF	PEILAS
-	4	7.15	76	. 2W

		P	ERCENT	PREC	IPITAT	D DIRE	CTION TH VAR	VS DCC	LUES	E DR N	IBILI	URRENC	E DF
VSBY		N	NE	e	SE	S	SW	w	NW	VAR	CALM	PCT	TOTAL
	PCP		.0		.0			.1	.1	.0	.0	.3	-
<1/2	NO PCP	.1						. 2	. 2	.0	.0	.6	
	TOT \$. 2		. 1	•	. 1	•	, 2	. 3	.0	.0	.9	
	PCP	.4			.0	.1	.0		.1	.0	.0	.7	
1/2<1		.3				. 1		.1	. 3	.0		.9	
	TOT %	.6	.1	. 1		.2		.1	.4	.0		1.5	
	PCP	.7	. 2		.0	.0	.1	.3	.4	.0		1.7	
1<2	NO PCP	. 2				. 1		. 1	. 4	.0	.0	. 8	
	TOT \$. 8	.2	•		.1	.1	.4	. 8	.0	•	2.5	
	PCP	2.3	.4	.2		.2	.3	.7	1.9	.0	.1	6.1	
2<5	NO PCP	1.2	.2	.0	.1	. 3	.3	, 5	1.3	.0		3.9	
	TOT %	3.4	.6	. 2	.1	.5	.7	1.1	3.2	.0	.1	10.0	
	PCP	2.4	.5	.1	,2	.3	.6	1.8	2.3	.0	.1	8.2	
5<10	NO PCP	4.0	. 9	.1	. 6	1.5	2.1	5.0	6.5	.0	.4	21.2	
	TOT \$	6.4	1.4	• 2	. 8	1.9	2.7	6,8	8.8	.0	.4	29.4	
	PCP	.8	.2	.1	.1	.3	.3	.9	.9	.0	.1	3.7	
10+	NO PCP	7.9	2.4	1.3	1.8	7.5	9.0	10.8	9.9	.0	1.4	51.9	
	TOT \$	8.7	2.6	1.4	1.9	7.8	9.2	11.7	10.8	.0	1.5	55.6	
	TOT 085												2936
	TOT PCT	20.2	5.0	2.0	2,8	10.5	12.7	20.4	24.3	.0	2.1	100.0	

TABLE 9

VSBY	SPD	N	NE	E	SE	S	SW	W	NW	VAR		PCT	TOTAL
(NM)	KTS			-	36	•	3#		NW	VAR	CALM	PCI	DBS
	0-3	.0	.0	*		.0	.0	.0		.0	.0	.1	
<1/2	4-10	.1			.0			.2	.1	.0		.4	
	11-21		•0	*	.0		.0	.1		.0		. 3	
	22+	•	.0	.0	.0				-1	.0		.2	
	TOT \$.2	•	•1		•1	•	.3	.3	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0			
1/2<		.1		*	*	.1		.1	.2	.0		.6	
	11-21	.2		.0	.0	*	.0			.0		.3	
	22+	.4			.0	.0	.0	.1	.4	.0		. 8	
	TOT \$.6	•1	.1	*	.1		.1	.6	.0		1.7	
	0-3		• 1	.0	.0	.0			.0	.0		.2	
1<2	4-10	-1	• 1	*	.0		.1	.1	.2	.0		.6	
	11-21	.4	• 1	.0	.0	.0		.1	. 2	.0		. 8	
	22+	.3	• 1	:			.1	.2	.4	.0		1.1	
	TOT %	.8	•2	*	*	•1	.2	.4	.8	.0		2.7	
	0-3	-1	• 1	.0	.0	.0		.1	.1	.0	.1	.5	
2<5	4-10	.5	• 2	*		.2	:1	.2	.5	.0		1.8	
	11-21	1.0	•2			.2	.3	.4	1.1	.0		3.2	
	22+	1.6	.3			.2	.2	.5	1.6	.0		4.5	
	TOT %	3.2	.8	• 1	.1	.5	.7	1.1	3.3	.0	.1	9.9	
	0-3	.1		.1	.1	.1			.1	.0	.6	1.2	
5<10		1.1	•2	.1	.3	. 8	1.2	1.4	1.5	.0		6.7	
	11-21	2.3	• 7	• 1	.3	• 7	.8	3.0	3.8	.0		11.6	
	22+	2.7	. • 4	• 1	.1	.2	.7	2.3	3.1	.0		9.5	
	TOT %	6.2	1.4	.4	.8	1.8	2.7	6.7	8.5	.0	.6	28.9	
	0-3	.6	• 1	.1	.1	.2	.2	.4	.2	.0	1.5	3.3	
10+	4-10	3.0	1.0	. 9	. 9	2.7	3.0	2.4	3.0	.0		17.0	
	11-21	2.8	1.0	.5	.7	4.0	4.7	6.3	5.0	.0		25.1	
	22+	1.9	.5	.1	.2	1.0	1.3	2.5	2.9	.0		10.4	
	TOT \$	8.3	2.6	1.6	1.9	8.0	9.3	11.5	11.1	.0	1.5	55.8	
	TOT ORS		-						-				3158
	TOT PET	19.3	5.1	2.3	2.9	10.6	12.9	20.1	24.6	.0	2 2	100.0	

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TABLE 10

AREA 0026 GULF OF PETLAS 76.2W

DECURRENCE OF NH <5/8 BY HOUR	PERCENT	FREQUENCY	OF CE	ILING	HE16HT	FEET, NH	>4/8)	AN
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HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	2.5	2.0	7.1	18.2	21.9	10.3	3.4	.7	.6	.5	67.3	32.7	626
06609	3.4	1.2	4.0	16.7	22.6	11.2	3.0	.7	.4	1.0	63.9	36,1	573
12615	2.3	1.8	9.6	16.9	23.7	15.4	3.1	.2	.4	.4	73.9	26,1	665
18621	2.6	3.3	7.4	16.9	23.2	11.3	3.6	.4	.0	,5	69.1	30.9	669
TOT PCT	2.7	2.1	7.1	17.2	22.9	12.0	3,3	.5	.4	.6	68.8	31.2	2533

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(MM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/DR
(GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
€0300	. 9	1.4	2.6	10.8	30.1	54.3	781	00603	2.6	12.5	36.5	33.3	30.3	607
90360	. 5	1.2	2.5	9.4	32,3	54.0	800	06609	3,5	8.9	31.6	34.3	34.1	559
12615	1.8	2.7	3,3	8.9	28.4	54.8	805	12615	2.4	15.8	38.4	37.9	23.8	648
18621	.7	1.8	3,3	12.4	24.1	57.7	852	18821	2,5	13.8	36.9	33,3	29.8	653
TOT PCT	1.0	1.8	3.0	10.4	28,7	55.2	3238 100.0	TOT	2.8	13.0	36.0	34.8	29.2	2467

TARIF 12

TABLE 14

				,	VAFE I	3									TABI	E 14				
	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY B	Y TEMP	TOTAL	PET		PERC	ENT FR	EQUEN	YOF	IND D	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	085	FREQ	N	NE	E	SE	s	SW	W	NW	VAR	CALM
65/69	.0	.0	.1	.0	.1	.1	.0	.0		.3	. 1	.0	•	_						
60/64	.0			. 2	.4	. 7	. 6			2.3			•0		• 1	• 1	• 0		.0	• 0
55/59	.0	.1	.1	. 4	2.2	5.3	5.5				2	• 1		• 1	.2	.4	. 4	.5	.0	.1
50/54	.0							3.7		17.2	3.7	.6	.2	.2	1.9	2.0	3.2	4.7	.0	.7
		.0			4.1	7.8		8.2		33.3	7.2	1.7	.6	.4	2,5	4.0	6.7	9.3	.0	. 8
45/49	.0	.0				9,9	11.0	8.0		33.0	6.5	1.5	.7	1.3	4.0	4.4	7.6	6.6	.0	
40/44	.0	.0	.0	.2	1.5	2.8	3.9	3.4		11.9	1.5	.6	. 7		1.9	1.8				.4
35/39	.0	.0	.0	.0	.1	, 3	.6			1.8				.6			2.3	2.2	.0	.3
30/34	.0		.0			.0	• • •	• •			.3	• 1	.1	• 1	.3	.2	.2	. 3	.0	.2
TOTAL		••	•0	.0	••	.0	••	• 1	2772	100.0	•1	•	•	•0	• 1	• 1	.0	.0	.0	.0
PCT	,0	. 1	.3	2.3	11.6	26,9	34.3	24.5			19.9	4.6	2.3	2.7	10.9	13.0	20.5	23.5	.0	2.6

TABLE 15

	MEANS,	EXTREME	S AND	PERCEN	TILES	OF TEM	P (DE	G F) B	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
60300	73	57	54	48	43	40	33	48.7	4575
90360	63	55	54	48	42	39	32	47.9	9101
12815	65	56	54	49	42	40	32	48.5	4548
18821	69	58	55	49	43	41	33	49.3	9869
TOT	73	57	54	49	43	40	32	48.7	27093

	PERC	ENT PRE	MUENCA	UF KELD	LIVE H	DWIDITA	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00603	.0	2.7	12.6	27.6	32.9	24.1	81	743
90300	.0	1.8	11.7	26.0	33.5	27.0	82	679
12615	.0	2.2	9.6	26.2	37.4	24.6	82	720
18621	.0	4.2	12.4	27.8	33.3	22.4	80	716
TOT	0	82	343	764	971	698	81	2858

PERIOD:	(PRIMARY)			AREA
	(DVER-ALL)	1854-1978	TABLE 17	

AREA 0026 GULF OF PEILAS 47.15 76.2W

PCT	FREQ	OF I	AIR TE		S AI	(DEG	F) AN	RATUR	E DIF	RRENCI PEREN	E (DE	G F)	IUT PR	ECIPITAT	ION)
AIR-SEA	33	37 40	*1	45	52	53 56	57 60	61	68	72	73 76	TOT	FOG	FOG	
17/19	.0	.0	:0	.0	.0	.0	.0	.0	.0	.0	•	1	.0		
14/16	.0	.0	.0	.0	.0	.0	. 1			.0	.0	4	.0	.1	
11/13	.0	.0	.0	.0	. 1	. 3	. 3	. 2		.0	.0	26		.9	
9/10	.0	.0	.0		.1	.4	. 1	.1	.1	.0	.0	23		. 8	
7/8	.0	.0		.1	. 3	.5	.6	.2	. 1		.0	56		1.9	
6	.0	.0	.0	.1		.7	.3	.1	.0	.0	.0	38		1.4	
5	.0	.0	.0	.3	. 5	.7	. 8	. 1		.0	.0	74	.1	2.4	
4	.0	.0	.0	.2	. 0	1.3	1.2	.2	:0	.0	.0	112	.1	3.7	
3	.0	.0	.0	.6	1.3	1.8	. 9	.2	.0	.0	.0	140	.1	4.7	
2	.0	.0	.2	1.1	2.9	2.1	.9	.2	.0	.0	.0	204	.5	6.9	
1	.0	.0		1.0	3. 8	3.3	1.0	.1	.0	.0	.0	268	.3	8.9	
0	.0		.4	2.9	4.5	3.4	1.2		.0	.0	.0	365	.5	11.9	
-1	.0		. 5	2.9	3.8	2.7	. 5	.0	0	.0	.0	291	.2	10.3	
-2	.0	.1	.9	4.1	4.1	2.0	.2		-0	.0	.0	323	.1	11.4	
-3	.0	.1	1.3	3.5	2.7	1.4	. 1	.0	.0	.0	.0	244		9.0	
-4	.0	.1	1.4	3.5	1.8	.5	. 1	.0	0	.0	.0	200	.1	7.3	
-5	.0	.1	1.8	3.0	1.3	.4		.0	.0	.0	.0	164	.1	6.6	
-6	.0	.5	1.8	1.3	.4	.2		.0	.0	.0	.0	109	.1	4.2	
-7/-8	. 1	.4	1.4	1.0	. 4			.0	.0	.0	.0	78	.1	3.2	
-9/-10	.0	.2	.6	. 3		.0	.0	.0	.0	.0	.0	25	.1	1.0	
-11/-13	.0	.3	.1		.1	.0	.0	.0	.0	.0	.0	14	.1	.4	
-14/-10 TOTAL	•	-1	.0	•	.0	.0	.0	.0	.0	•0	.0	2763	•0	.2	
PCT	.1	2.1	10.5	25.9	29.3	21.8	8.3	1.6	.3			100.0	2.6	97.4	

PERIOD: (DVER-ALL) 1963-1978

TABLE 18

				PC	T FREQ	DF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE 22-33			
HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	.2	1.4	.2	•0	.0	.0	1,8		.1	1.0	•1	.0	.0	.0	.6
3-4	.3	2.3	2.1	.0	.0	.0	4.7		.2		.3	.0	.0	.0	1.6
5-6	.1	1.1	1.7	.7	.0	.0	3,6		.0	.4	.5	.2	.0	.0	1.0
7	.0	.2	2.7	1.4	.0	.0	4.3		.0	.0	.6	.1	.0	.0	.7
8-9	.0	.1	.7	1.0	.1	.0	1.8		.0	.0	•1	.2		.0	.4
10-11	.0	.1	.2	1.0	.2	.0	1.4		.0	.0	.1	.3	• 1	.0	. 5
12	•0	.0	.1	1.1	.3	.0	1,5		.0	.0	.0	.1	• •	.0	.1
13-16	.0	.0	.0	.4	.0	.0	. 4		.0	.0	.0	•	.0	.0	
17-19	.0	.0	.1	.3	.1	.0	.6		.0	.0	.0	.0	.0	.0	.0 .1
20-22	.0	:0	.0	.1	.1	.0	.1		.0	.0	.0	.0	• • •	.0	• 1
23-25	.0	.0	.0		.0		.0		.0			.0	• • •	.0	• 1
26-32	.0	:0	.0	.1	:0	.0	.1		.0	.0	.0	:0	•0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• •	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	:0	.0	.0	•0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	• 0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.7	5.1	7.9	5.8	. 8	.0	20.4		.3	1.8	1.8	1.0	.1	.0	5.2
					•		•••					•••	•		
				ŧ											
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	. 4	.0	.0	.0	.0	. 5		.2	. 1	.0	.0	.0	.0	. 3
1-2	.0	.6	.3	.0	.0	.0	. 9		.0	.3	.3	.0	.0	.0	.5
3-4	.0	, 3	,1	.1	.0	.0	.4		.0	.3	.3	.1	.0	.0	.7
5-6	.0	.1		.1	.0	.0	.2		.0			.0	.0	.0	
7	.0		.0	.2	.0	.0	. 2		.0		.1	.1	.0	.0	.3
8-9	.0	.0	. 1	.0	.0	.0	.1		.0	.0	.1	.0	0000	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.1
12 13-16	.0	.0	.0	.0	.1	.0	.1		.0	.1	.0	.0		.0	.1 .0 .0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.00000000000000000000000000000000000000	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	. 1	1.4	. 5	.3	.1	.0	2.4		.2	.8	. 8	.3		.0	2.2

PERIOD:	(DVE)	8-A) ()	1963-1	978					ANNUA	AL				ADFA	0026	GIII E	OF PEILAS
				.,.				TABLE	18 (6	(THO						.15	76.2W
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND D	DIREC	TION	VERSUS	SEA HEIG	HTS (FT)			
				5									SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1	1-3	4-10	11-21	22-33	34-47	48+	P	CT
<1	.2	.3	. 1	.0	.0	.0	. 6			. 3	.7	.0	.0	.0	.0		.9
1-2	.0	1.3	1.1	.0	.0	.0	2.4			.0	1.7	.6	.0	.0	.0	2	.3
3-4	.0	. 8	1.3	.3	.0	.0	2.4			.0	1.2	2.5	.1	.0	.0		.8
5-6	.0	.1	1.0	.6	.1	.0	1.8			.0	.4	1.8	.7	.2	.0		.2
7		.2	.7	.1		.0	1.0			.0	.2	.6		.1	.0		.1
8-9	.0	:3	. 1	.1	.0	.0	.7			.0	.1	.5	.4	.0	.0		.0
10-11	.0	.1		.1	.0	.0				.0	.1	.4	.3	.1	.0		.0
12	.0	.0	.0	.1	.0	.0	.1			.0	.0	.0	.1	.1	.0		.2
13-16	.0	.0	.0	.1	.2	.0	.2			.0	.1	.0	.1	.2	.0		.4
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.1	.1	.0		.2

17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	a O	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	-0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
87+	.0	.0	.0	.0	.0	-0	.0	.0	.0	.0	.0	. 0	-0	.0	
TOT PCT	.2	3,2	5.0	1.3	, 3	.0	9.9	.0	4.4	6.5	.0	000	.0	14.1	
				W							NU				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
41		.2	.0	.0	.0	.0	.2	.2	. 6	.1	.0	94 40	.0	.8	
1-2	.1	1.7	1.8	.0	,0	.0	3,6	.1	1.7	2.5	.0	.0	.0	4.3	
3-4	.0	1.0	3,3	.6	.0	.0	4.8	.0	1.3	3,9	1.1	.0	.0	6.3	
5-6	.0	1.8	2.8	.5	.1	.0	4.2	.0	.4	1.9	1.9	.1	.0	4.3	
7	.0	.3	1.4	1.2	:i	.0	2.9	.0	:1	1.7	1.0	٠.	.0	2.9	
8-9	.0	• 5	1.3	1.9	.0	.0	1,4	.0	.1	.,3	1.1	.1	.0	1.6	
10-11		.2	:3	.,	.1	.0	1.4	.0	.0		1.4	:i	.0	2.1	
12	.0		.1	.3	.0	.0	***	.0	.0	.1		i	.0	.8	
13-16		:1	:1	.5	.1	.0	:	.0	.0	:1	.5		.0	1.0	
17-19	.0	.1	• •	.0	:1		• •	.0	.0	.1	.0		.0	1.0	
20-22	.0	.0	.0	.0	:0	.0	.0	.0	:0	.0	.0	• • •	.0	.2	
23-25		.0	.0	.0	:0	.0	:0	.0	.0	.0		0 0 0	.0		
26-32	.0	.0	.0	.0			• 0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	.0		.0		:0	:0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0	.0		:0			•0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	•0		.0	.0	.0	.0	.0	
61-70	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0 4.2	.0	.0	.0	.0	.0	.0	.0	,0	7.7	0 0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	19.7	.0	.0	,0	.0	0	.0	.0	
TOT PET	.1	4.2	9.9	4.9	. 5	.0	19.7	.2	4.1	11.3	7 7	1 2	- 0	24.5	98.4

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(#7)		
HGT	0-3	4-10	11-21	22-33	34-47	484	PCT	TOT
<1	2.9	4.2	.4	.0	.0	.0	7.6	003
1-2	.7	10.7	8.9	.0	.0	.0	20.3	
3-4	. i	6.3	13.5	3.1	.0	.0	23.0	
5-6	.0	1,9	10.8	5.3		.0	18.6	
7	.0	1.0	5.4	3,9	.4	.0	10.7	
8-9	.0	.6	2.0		.;	.0	6.7	
10-11	.0	.3	1.9	4.0		.0		
12	.0	.1	2	1.6	.2	.0		
13-16		,1	.2	1.4	1.0		2,9	
17-19	.0	.0		.1	1.5	.0	2.7	
	.0		.1	:1	.3	.0	:3	
20-22		.0	.1		.0			
23-25	.0	.0	.0	•1		.0	.1	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
		17-187						1316
TOT PCT	3.8	25,3	43.6	23,3	4.0	.0	100.0	

PERIOD: (OVER-ALL) 1952-1977 TABLE 19 PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS) <1 l-2 3-4 5-6
1.9 5.4 6.1 4.4
* .4 2.9 4.7
.0 .3 1.2 2.4
.0 .6 .6 .8
.0 .0 .2 .4
.0 .0 .3
3.7 .7 .9 .7</pre> 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 4.4 4.7 2.4 .8 .4 .2 2.7 4.0 4.7 1.7 .2 1.5 2.5 1.8 .7 2.1 3.3 3.4 2.5 .4 1.5 3.0 2.0 1.3 1.0 2.0 1.6 1.3 1.2 .3 .2 .9 .8 .2 .3 .3 .0 .0 .1 .00.01 .00000000 .0000000 .0000000 .0000000 7.5 11.9 13.7 14.5 12.9 11.4 8.1

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	NUL	JUL	AUG	SEP	DCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	. 0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.1		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	
63/64			.1	. 0	.0	.0	.0	.0	.0	.0	.0	•	5	
61/62	.7	4:7	- 4		.0	.0	.0	.0	.0		.0	•	48	.2
59/60	2.7	4.7	1.6	. 3	.0	.0	.0	.0	.0	.0	.1	. 3	231	.9
57/58	11.2	13.7	8.1	1.5	.1	.1		.0	.0	.1	.3	2.1	884	3.3
55/56	25.0	26.9	24.4	11.0	2.8	.3	.3	.1	.0	.4	2.0	10.8	2476	9.1
53/54	20.5	20.0	21.7	21.5	7.9	2.0	1.0	.2	.7	.7	7.3	18.6	2835	10.5
51/52	19,6	17.4	19.9	22.7	23.5	11.0	3.2	1.1	1.6	6.8	18.4	24.6	3861	14.3
49/50	13,3	11.8	16.9	24.2	28.2	27.2	19.4	12.7	12.0	24.4	27.7	21.6	5345	19.7
47/48	5,5	3.7	5.5	12.3	21.4	28.2	31.2	28.2	28.4	29.1	22.8	15.5	5122	18.9
45/46	1,3	1.0	1.1	4.2	13.7	22.6	32.1	39.6	36.8	28.3	17.3	5.9	4520	16.7
43/44	.1	.0	.2	1.3	1.8	6.0	9.8	14.6	14.4	8.4	3.5	. 4	1339	4.9
41/42	.0	.0	. 2	.3	.4	1.6	2.3	2.6	5.4	1.7	.4	•	326	1.2
39/40	.0	.0	.0	.1		.9	.6	.7	. 8	.1	.1	.0	70	.3
37/38	.0	.0	.0	.1		. 1			.0		.0	.0	8	
35/36	.0	.0	.0	.0	.0	.0		.1	.0	.0	.0	.0	4	
33/34	.0	.0	. 0		.0	.0		•	.0	.0	.0	.0	2	
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	• 0	.0	.0	.0	.0	0	.0
TOTAL	2340	2290	2634	2144	2163	1793	2086	2406	2130	2368	2342	2323	27079	100.0
MEAN	53,3	53,7	52.9	51.1	49.4	47.8	46.9	46.2	46.1	47.4	48.9	51.0	49.5	

TABLE 21

PR	ES	5	URE	M	B	,
					-	

			AV	ERAGE	BY HOU	R (GMT)			
										TOTAL
MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	DBS
JAN	1011	1006	1011	1011	1011	1009	1011	1011	1011	941
FEB	1012	1010	1012	1011	1012	1013	1011	1012	1011	688
MAR	1014	1014	1013	1011	1012	1010	1011	1012	1012	880
APR	1011	1016	1011	1009	1010	1018	1010	1010	1010	664
MAY	1010	-	1011	1012	1011		1009	1012	1011	624
JUN	1009	997	1009	1008	1008	986	1008	1008	1008	509
JUL	1009	994	1009	1009	1009	1002	1008	1009	1009	750
AUG	1010	1003	1010	1009	1009	1005	1008	1009	1009	791
SEP	1014	1013	1015	1015	1015	1009	1013	1017	1014	794
DCT	1013	1016	1013	1012	1013	1013	1012	1012	1013	832
NOV	1011	1015	1012	1012	1012	1020	1011	1012	1011	813
DEC	1010	1014	1010	1008	1010	1012	1009	1009	1010	895
ANN	1011	1009	1011	1011	1011	1009	1010	1011	1011	9181
DRS	1518	67	1402	837	1488	84	2931	854		

0	F	0	r	6	N	T	•	1	c	c

MO	MIN	1*	5%	25%	50%	75%	95%	99%	MAX	
JAN	988	991	997	1006	1011	1018	1024	1026	1028	
FEB	988	990	995	1006	1012	1018	1023	1026	1030	
MAR	987	991	996	1006	1013	1019	1025	1027	1029	
APR	984	988	992	1003	1011	1018	1026	1028	1029	
MAY	983	984	992	1004	1012	1018	1026	1029	1031	
JUN	985	985	989	999	1008	1017	1026	1029	1032	
JUL	982	985	990	1000	1009	1017	1028	1032	1034	
AUG	981	984	989	1000	1009	1018	1027	1032	1036	
SEP	980	987	995	1007	1016	1023	1028	1032	1035	
DCT	983	989	994	1006	1013	1019	1027	1031	1033	
NOV	983	989	996	1006	1011	1018	1026	1029	1030	
	000	990	904	1004	1010	1015	1029	1025	1020	

PERIOD: (PRIMARY) 1908-1978 (OVER-ALL) 1869-1978

TABLE 1

AREA 0027 VALDIVIA 40.55 74.4W

PERCENT P	REQUENCY	DF	WEATHER	DCCURRENCE	84	WIND	DIRECTION
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			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	6.3	.0	1.6	.0	.0	.0	.0	7.8	21.1	3.1	.0	.0	.0	.0	71.1
NE	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	60.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	10.5	.0	.0	.0	.0	10.5	.0	.0	13.2	.0	.0	.0	76.3
S	.0	.0	3.7	.0	.0	.0	.0	3.7	1.7	.0	3.0	.0	.7	.0	90.8
SW	.0	2.9	1.7	.0	.0	.0	.0	4.6	3.8	.0	. 9	.0	.3	.0	90.5
W	.0	5.1	5.1	.0	.0	.0	.0	10.3	5.5	.0	.0	.0	.0	.0	84.2
NW	4.2	.0	3.2	.0	.0		.0	7.4	6.3	.0	8.4	.0	.0	.0	77.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0		100.0
TOT PCT TOT OBS:	335	1.8	3.6	•0	•0	•0	.0	6.3	5.1	.3	2.1	•0	.6	.0	86,0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE						WEATHER	PHEND	MENA	
HJUR (GMT)	RAIN	RAIN	ORZL	FRZG PCPN			HAIL	PCPN AT	PCPN PAST HOUR	THOR	FDG WD PCPN	FOG WD PCPN PAST HR	SMOKE		
00603 06809 12615 18621	1.1 1.4 1.2	3.2 1.4 1.2 1.2	4.2 4.7 1.2	.0	.0	.0	.0	8.4 6.9 7.1 2.4	3.2 5.6 8.2 3.5	1.4	2.1 4.2 1.2 1.2	.0	.0	.0	86.3 83.3 83.5 90.6
TOT PCT TOT OBS:	337	1.8	3.6	•0	•0	•0	.0	6.2	5.0	,3	2.1	•0	.6	.0	86.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

				ED (KN									HOUR	(GMT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+		PCT	MEAN	00	03	06	09	12	15	18	21	
							QBS	FREQ	SPD									
N	.6	3.2	1.9	1.2	.8	.1		7.8	15.5	6.7	21.9	7.2	7.1	8.2	8.3	9.2	7.4	
NE	.2	.5	. 4			.0		1.1	10.3	.8	3.1	.6	1.5	1.3	11.1	1.2	. 6	
E	.8	. 4		.0	.0	.0		1.2	4.3	. 5	.0	1.1	1.6	2.5	.0	1.2	. 4	
SE	.4	2.9	2.8	1.0	.0	.0		7.1	12.6	4.8	3.1	6.6	9.5	11.8	.0	5.4	5.8	
S	1.8	13.5	15.9		.2	.0		36.5	13.3	36.7	21.9	36.5	40.1	38.5	11.1	33.5	36.5	
SW	1.3	9.1	6.5	.9	.2	.0		18.0	10.8	21.3	40.6	21.3	15.3	15.2		14.5	19.9	
W	1.1	6.2	5.4	1.5	.2	.0		14.4	12.4	16.0	9.4	12.2	10.8	12.5	11.1	17.7	16.0	
NW	.7	4.9	4.0		.2	.0		11.0	12.1	10.6	.0	10.2	8.7	7.6		15.5	11.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0	.0	. 5	
CALM	3.0	•		•	• (=)			3.0	.0	2.8	.0	4.3		2.4	.0		1.6	
TOT OBS	201	834	755	223	31	2	2046		12.2	362	. 8	349	279	334	9	456	249	
TOT PCT	9.8	40.8	36.9	10.9	1.5	.1		100.0	(e=1,=		100.0	100.0			100.0			

TABLE 3A

WND DIR	0-6	WIND 7-16	SPEED 17-27	(KNOTS)	41+	TOTAL	PCT	MEAN SPD	00	96 09	R (GMT 12 15	18
N NE	2.1	2.6	1.5	1.2	.3		7:5	15.5	7.0	7.1	8.2	8.6
	.9	.3	.0	.0	.0		1.2	4.3	.3	1.4	2.4	.9
SE S	1.8	3.2	1.9	.3	.0		7.1	12.6	4.8	7.9	11.5	5.5
	6.9	17.5	9.8	2.2	.0		36.5	13.3	36.4	38.1	37.8	34.6
SW	4.6	10.3	2,6	.4	.0		18.0	10.8	21.7	18.6	16.0	16.4
W	3.5	7.1	2.7	.9	•		14.4	12.4	15.8	11.5	12.5	17.1
NM	2.7	5.4	2,3	.5	0		11.0	12.1	10.3	9.6	7.8	14.1
VAR	.0	.0	.0	.0	.0		.0	.0	•0	.0	.0	.0
CALM	3.0				-		3.0	.0	2.7	4.5	2.3	1.8
TOT OBS	530	960	434	115	7	2046		12.2	370	628	343	705
TOT PCT	25.9	46.9	21,2	5.6	.3		100.0		100.0	100.0	100.0	100.0

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PERIOD:	(PRIMARY)	1908-1978
	(DVFR-ALL)	

AREA 0027 VALDIVIA 40.55 74.4W

PERCENTAGE	FREDUENCY	DE	MIND	SPEED	BY	HOUR	(CMT

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21		34-47	48+	MEAN	FREQ	DBS
00603	2.7	6.5	41.6	37.0	10.0	2.2	.0	12.3	100.0	370
06409	4.8	6.7	40.3	36.1	10.7	1.3	.2	11.8	100.0	628
12615	2.3	8.5	41.7	35.6	11.1	.6	.3	11.9	100.0	343
18621	1.8	6.4	40.3	38.2	11.5	1.8	.0	12.7	100.0	705
TOT	61	140	834	755	223	31	2	12.2		2046
PCT	3.0	6.8	40.8	36.9	10.9	1.5	.1	-	100.0	-

TARLE 5

TABLE 6

												0.75						
,	CT FRE			LOUD A		(EIGHTHS)							CEILIN					
WND DIR	0-2	3-4	5-7	8 & 085CD	TOTAL	CLOUD COVER	000	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.5	1.0	3.3	3,5		6.6	.0	.0	1.0	.3	2.6	1.0	.0	. 3	.0	.0	3.0	
NE	.1	.0	. 8	.7		7.0	.0	.0	.0	. 3	.3	. 6	.0	.1	.0	.0	. 2	
E	.3	.0	.5	.0		4.3	.0	.0	.0	.0	.0	. 5	.0	.0	.0	.0	. 3	
SE	1.0	. 8	.6	. 8		4.1	. 3	.0	.1	. 3	.3	. 2	.1	.0	.0	.0	1.8	
S	9.5	6.1	5.5	7.4		4.2	.5	.3	. 5	4.1	3.9	1.8	. 3	.0	.0	.0	17.1	
SW	3.7	4.7	8.7	8.4		5.4	. 2	. 1	2.2	2.5	3.8	3.6	1.5	.0	.0	.1	11.4	
W	2.1	2.2	7.3	10.3		6.3	.3	.0	2.7	2.5	2.3	2.9	2.3	1.0	.0	. 3	7.6	
NW	1.1	1.9	1.4	3.9		5,8	1.5	.0	.0	.3	1.6	1.1	.7	.0	.0	.0	3.2	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.3	.0		1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
TOT OBS	58	48	82	101	289	5.3	8	1	19	30	43	34	14	4	0	1	135	289
TOT PCT	20.1	16.6	28.4	34.9	100.0	•	2.8	. 3	6,6	10.4	14.9	11.8	4.8	1.4	.0	.3	46.7	100.0

TABLE 7

		CUM	ULATIVE	PCT FREC	OF SIMU	LTANEDUS	DCCURRE	NCE	
		U	- CEILIN	G HEIGHT	(NH >4/	B) AND V	SBY (NM)		
					VSBY (NE	1)			
C	EILING	• OR	- OR	• DR	- OR	- DR	 DR 	 OR 	= OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR	>6500	.3	.3	.3	.3	1:7	.3	.3	.3
OR	>5000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
OR	>3500	5.8	6.5	6.5	6.5	6.5	6.5	6.5	6.5
OR	>2000	14.1	17.9	18.2	18.2	18.2	18.2	18.2	18.2
OR	>1000	25.1	32.0	32.3	32.6	32.0	32.6	33.0	33.0
OR	>600	33.3	42.3	42.6	43.0	43.0	43.0	43.3	43.3
OR	>300	38.1	47.8	48.8	49.5	49.5	49.5	49.8	49.8
OR	>150	38.5	48.1	49.1	49.8	49.8	49.8	50.2	50.2
OR	> 0	38.5	48.8	49.8	50.5	51.2	51.9	52.9	52.9
	TOTAL	112	142	145	147	149	151	154	154
TO	TAL NUMB	ER OF OB	SI 29	1	,	CT FREQ	NH <5/81	47.1	

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	OBS
11.0	8.7	7.4	10.7	9.7	6.1	7.4	9.4	26.9	2.6	309

 Δ	N	u	A	R	٧

							JA	NUARY						
(OVER-ALL)	1908-1978 1869-1978						TA	BLE 8				ARE	40.55 7	IA 74.4
		P	ERCENT	FREG	OF WIN	D DIRE	CTIUN TH VAR	VS DCC	URRENC ALUES	E OR N	IBILI'	URRENC	E OF	
VSBY		N	NE	•	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL	
<1/2	PCP NO PCP TOT \$.0	.0	.0	.0	.2	.1	.0	.3	.0	.0	1.5		
1/26	PCP 1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT \$.0	.0	.0	•0	.2	.1	•0	.3	,0	.0	.6		
1<2	PCP NO PCP TOT \$.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3		
2<5	PCP NO PCP TOT \$.6	.0	.0	.0	.0	.3	.0	.0	.0	.0	1.5		
5<10	PCP NO PCP TOT \$	2.3	.3	.0	.0	1.9	3.2 3.7	2,8	:7	.0	.0	2.4 11.3 13.7		
10+	PCP NO PCP TOT \$	5.9 6.0	.9	.0 .7 .7	2.2	26.4 26.7	21.0 21.7	1,0 15,4 16,4	5.2 5.4	.0	2.1	2.4 79.7 82.1		
	TOT OBS	9.6	1.5	.7	2.8	30.1	25.8	20,3	7.1	•0	2.1	100.0	335	

			,					S OF V			ED		
VSBY (NM)	SPD	N	NE	ε	SE	s	SW	W	NW	VAR	CALM	pCT	TOTAL
	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
<1/2	4-10	.0	.0	.0	.0	.2	.1	.0	.3	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT &	.3	.0	•0	.3	.2	.1	.0	.5	.0	.0	1.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	4-10	.0	.0	.0	.0	.2	.1	.0	. 3	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	455	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	.0	.0	.2	.1	.0	.3	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	4-10	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.1	.2	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	•0	.1	.5	.0	.0	.0	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3		
2<5	4-10	.,	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	• 0	.0	.0	.0	.3	.3	.0	.0		.5	
	224	.5	.0	.0	.0	.0	.0	.0	.0	.0		.5	
	101 \$		•0	.0	.0	.0	.3	.3	.0	.0	.3	1.6	
	0-3	.0	.0	.0	.0	.2	.6	.0	.3	.0	.3		
5<10	4-10	.0	.0	.0	.3	.5	1.7	1.8	.0	.0		4.3	
	11-21	.,	.5	.0	.0	1.9	1.1	. 7	.9	.0		5.4	
	22+	1.8	.0	.0	.0	.3	.0	.7	.1	.0		3.0	
	TOT \$	2.1	.5	.0	.3	2.9	3.4	3.2	1.3	.0	.3	14.0	
	0-3	.5	.1	.4	.0	.6	.7	.3	.1	.0	2.2		
10+	4-10	3.8		.2	1.2	9.3	9.2	5.6	2.6	.0		32.5	
	11-21	.7	.1	.0	1.0	14.4	10.5	8.6	1.5	.0		36.8	
	42+	. 9	.0	.0	.0	4.1	.7	1.3	. 8	.0		7.8	
	TOT \$	5.8	. 8	.6	2.2	28.5	21.2	15.7	5.0	.0	2.2	82.0	
	nt uns												372
	OT OFT	0.0	1 - 2	- 4	2.4	27.2	25.0	10.7	7.1	- 0	2 7	100-0	

J			

PERIOD: (PRIMARY) 1908-1978 (OVER-ALL) 1869-1978

TABLE 10

AREA 0027 VALDIVIA 40.55 74.4W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL	
60300	1.2	.0	7.2	7.2	15.7	10.8	3.6	1.2	.0	.0	47.0	53.0	83	
90360	4.8	.0	11.3	11.3	9.7	11.3	1.6	.0	.0	1.6	51.6	48.4	62	
12615	3.9	1.3	5.2	10.4	20.8	13.0	7.8	1.3	.0	.0	63.6	36.4	77	
18621	1.3	.0	2.5	11.4	10.1	10.1	5.1	2.5	.0	.0	43.0	57.0	79	
TOT	8 2.7	1	19	30	43	34	14	1.3	0	1	154	147	301	

TABLE 11

TABLE 12

								CUMULAT	IVE PCT	FREQ	OF RAN	GES OF	VSBY (NM)	AND/DR
		PERCENT	FREQUEN	CY VSBY	(MM)	BY HOUR			CEILI	IG HGT	(FEET,	NH >4/8	1) BY HOUR	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
60300	•0	1.0	1.9	1.0	9.6	86.5	104	00803	1.2	8.6	17.3	30.9	51.9	81
06609	3.4	1.1	.0	1.1	13.8	¥0.5	87	06809	5.0	18.3	30.0	23,3	46.7	60
12615	2.3	.0	.0	1.1	17.0	79.5	88	12615	4,0	10.7	21.3	44.0	34.7	75
18621	.0	.0	.0	3.2	15.8	81.1	95	18821	1.3	4.0	17.3	28.0	54.7	75
PCT	1.3	.5	2	1.6	52 13.9	307 82.1	374	TOT	8	10.0	61	93	137	291

TABLE 13

TABLE 14

	PERC	ENT FRI	EQUENC	Y OF R	ELATIV	E HUMI	DITY B	Y TEMP	TOTAL	PCT		PERCE	NT FR	EQUEN	Y OF	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	•0	.4	.0	.0	.0	.0	1	.4	.0	.0	.0	•0	.0	•0	.4	.0	.0	•0
70/74	.0	.0	.4		.7	.0	. 4	.0	5	1.8	.0	.2		.1	.3	.1	.4	.0	.0	.0
65/69	.0	.0	.0	1.1	1.8	1.1	2.1	1.1	20	7.0	.6	.4	.0	.1	1.9	1.3	1.3	.7	.0	.7
60/64	.0	.0	.0	1.8	7.0	13.7	13.4	11.6	135	47.5	7.4	.7	.0	. 8	14.9	9.3	9.9	4.5	.0	.0
55/59	.0	.0	.4	1.8	5.3	7.7	13.0	7.0	100	35.2	1.7	.1	.0	1.1	10.4	9.6	8.7	3.0	.0	.7
50/54	.0	.0	.0	.7	1.4	1.8	3.9	. 4	23	8.1	.0	.0	.0	.0	1.8	3.5	1.6	. 8	.0	.4
TOTAL	0	0	2	17	46	69	93	57	284	100.0		•	• •							
PCT	.0	.0	.7	6.0	16.2	24.3	32.7	20.1	-		9.7	1.3	. 8	2.0	29.3	23.9	22.3	9.0	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

				,		•			
HOUR (GMT)	MAX	99\$	95%	50%	5%	18	MIN	MEAN	TOTAL
00603	76	68	64	59	54	53	50	58.8	364
90300	67	65	62	57	52	50	45	57.0	627
12615	72	67	64	59	53	50	49	58.5	315
18621	76	72	67	60	55	53	46	60.6	559
TOT	76	68	65	59	53	51	45	58.7	1865

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	.0	4.9	16.0	28.4	33.3	17.3	79	81
90300	.0	3.3	6.7	25.0	38.3	26.7	83	60
12615	.0	4.2	21.1	15.5	33.8	25.4	60	71
18821	.0	13.9	19.4	27.8	26.4	12.5	75	72
TOT	0	19	46	69	93	57	79	284

JANUARY

PERIOD: (PRIMARY) 1908-1978 AREA 0027 VALDIVIA (QVER-ALL) 1869-1978 TABLE 17 40,55 74.4W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	40	53	87	61	65	69	72	TOT		₩n	
THP DIF	52	56	60	64	68	72	73 76	101	FÖG	FOG	
14/16	.0	.00	.0	.0	:0	.3	1.0	5	003000300300007	1.6 1.3 2.3 5.5 1.6 3.5	
11/13	.0	.0	.0	.0	.0	.6	.6	4	.0	1.3	
9/10	.0	.0	.0	1.0	. 6	.6	.0	8	.3	2.3	
7/8	.0	.0	1.6	1.9	1.6	.3	.0	17	.0	5.5	
6	.0	.0	.3	.6	.6	.0	.0	5	.0	1.6	
5	.0	.0	.6	1.9	1.0	.0	.0	11	.0	3.5	
4	.0	.0	.0	3.2	.0	.0	.0	11	.0	3.2	
3	.0	.0	1.6	3.2	1.3	.0	.0	20	. 3	6.1	
2	- 0	. 3	2.9	4.2	. 6	.0	.0	25	. 0	8.0	
ī	.00000000	1.0	4.2	5.1	.6	.0	.0	33	.0	6.1 8.0 10.6 13.2 12.9 9.3 6.8 5.5 3.5	
-1 -2 -3 -4 -5	.0	1.0	6.1	5.1	. 3	.0	.0	42	. 3	13.2	
-1	. 0	2.3	5.8	4.8	. 0	. 0	.0	40	. 0	12 9	
-3		3,9	3.2	2.6	.0	.0	ò	31	. 6	0.3	
-3		2.3	3.2	1.0	.0	,0	• •	31 22	'3	7.5	
	.6	2.0	3.6	.6	.0	, 0.	.0	22		0.0	
-:		1.9	2.6		.0	.0	.0	18	• • •	2.2	
-5	.0	2.9	.6	.0	.0	.0	.0	11	.0	3,3	
-6 -7/-8	.0	.3	.3	.0	.0	.0	.0	2	.0	.0	
-7/-8	.0	.6	1.0	.0	.0	.0	.0	2 5 2	.0	1.6	
-9/-10	.6	.0	.0	.0	21	.0	.0	2	.0	304	
TOTAL	7		107		21		5		7	304	
-		17.7		110		6		311			
PCT	2.3	17.7	34.4	34.4	A . B	1.0	1.6	100.0	2.3	97 7	

PERIOD: (DVER-ALL) 1963-1978

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)		
HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6		, 3	.6	.0	.0	.0	.0	1.0
1-2	.0	2.2	1.0	.0	.0	.0	3.2		.0	.0	.2	.0	.0	.0	. 2
3-4	.5	.6	.0	.6	.0	.0	3.2		.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	.6	.0	.0	.0	1.9		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.6	1.3	.0	1.9		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.6	.0	. 6		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.00000000000000000000000000000000000000
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	3.5	.0	.0	.0	.0	8.8		• 0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
TOT PET	.5	3.5	1.6	1.3	1.9	.0	8.0		.3	.0	1.4	.0	.0	.0	2.4
				E								22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21		34-47	48+	PCT
<1	1.0	.0	.0	.0	.0	.0	1.0		.6	.0	.0	.0	.0	.0	.6
1-2	.0	.5	.0	.0	.0	.0	, 5		•0	1.0	.2	.0	.0	.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.6	. 2	.0	.0	.0	. 8
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12 13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	•0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	• 0		•0	.0	.0	.0	••	.0	.0
20-22	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
23-25	.0	.0	.0	.0		.0	•0		.0	.0		.0	••	.0	.0
26-32 33-40	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
49-60	:0	:0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	.0	.0	.0	• 0	.0	.0
87+	.0	:0	.0	.0	:0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	.5	.0	.0	:0	.0	1.4		.6	000000000000000000000000000000000000000	.3	.0	000000000000000000000000000000000000000	.0	2.6
		.,	.0	.0	.0	.0			• •			.0	••		2.0

PERIOD:	Inve								JANUA	RY					0027	VALDIV	
PEKTOOT	LUVE	N-ALL!	1963-	1478				TABLE	18 (0	CTAD				AKEA	40		4.4W
				PC	T FREQ	DF WIND	SPEED				TION	VERSUS	SEA HEIG	HTS (FT	,		
				\$									22-33	34-47			
HGT <1	1-3	4-10	11-21	22-33	34-47	48+	1,1			.0	4-10		.0	.0	48+		
1-2	.5	4.1	5.9	.0	.0	.0	12.5			. 8	2.9		.0	:0	.0		
3-4		6.1		1.8	.0	.0	4.5			.0				:0	.0		
5-6	.0	1.1	2.7	1.0	.0	.0	5,1			.6	::		.2	• 0	.0		
7	.0	1.0	1.1	1.1	.0	:0	2,4			.0	:		.2	• 0	.0	2.4	
8-9	.0	.6	1.3		.0	.0	2,6			.0	.0		.0	• 0	.0		
10-11	.0	.0	.0	3.0	.0	.0	3.0			.0			.2	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0			.0			.0	• 0	.0		
13-16	.0	.0	.0		.0	.0	.0			.0	:		.0	.0	:0		
17-19	.0	:0	.0		.0	.0	:0			.0	:		.0	.0	.0		
20-22	.0	:0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0			.0	. 0		.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	• 0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	• 0	.0		
61-70	.0	.0	.0	.0	.0	.0	ö			.0	.0		.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	• 0	.0		
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		
OF PCT	1.1	8.3	13.9	7.9	.0	.0	31,3			.4	8.2		1.1	.0	.0	23.2	
	•••	0.5	13.7	,.,	••	••	3.,,		•	• •	•••		•••	••		27.1	
													NW				TOTA
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1	-3	4-10		22-33	34-47	48+	PCT	PCT
<1	.0	.5	.0	.0	.0	.0	. 5			.0	.0	.0	.0	. 0	.0	.0	
1-2	.0	5.4	1.0	.0	.0	.0	6.4			.0	2.4		.0	.0	.0		
3-4	.0	2.4	6.4	.0	.0	.0	8.8			. 2	1.3		.0	. 0	.0		
5-6	.0	.0	1.6	.0	.0	.0	1.6			.0	.0		.0	.0	.0		
7	.0	.5	1.8	.0	.0	.0	2.2			.0	.0		.0	.0	.0		
8-9	.0	.0	.0	.6	.0	.0	.6			.0	.0		.0	0	.0		
10-11	.0	.0	.0		.0	.0	.0			.0	.0		.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	. 5	1.3	.0	.0	1.0			.0	.0			0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		
23-25	.0	.0	.0		.0	.0	.0			.0	. 0		.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0			.0	. 0		.0	.0	.0		
33-40	.0	.0	.0		.0	.0	.0			.0	.0		.0	.0	.0		
41-48	.0	.0	.0		.0	.0	.0			.0	.0		.0	.0	.0		
49-60	.0	.0	.0		.0	.0	.0			.0	.0		.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0			.0		.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0			.0		.0	.0	0	.0		
87+	.0	.0	.0	.0	.0	.0	.0			.0		.0		.0	.0		
TOT PCT	-0	8.8	11.2	1.0	-0	-0	22.0			. 2	3.7	3.8	-0	. 0	.0	7.7	90.

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.2	5,1	.0	.0	,0	.0	8,3	003
1-2	1.3	20.5	14.7	.0	.0	.0	36.5	
3-4	.6	5.8	12.8	2,6	.0	.0	21.8	
5-6	.6	1.9	9.6	1.3	.0	.0	13.5	
7	.0	1,3	4.5	2.6	1.3	.0	9.6	
8-9	.0	.6	2.6	1.3	.0	.0	4.5	
10-11	.0	.0	.0	3,2	.6	.0	3.8	
12	.0	.0	.0	.0		.0	.0	
13-16	.0	.0	.6	1.3		.0	1.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	,0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
874	.0	.0	.0	.0	.0	.0	.0	
								156
TOT DET		26 2	44 0	10 0		•	100 0	

PERIO): (OV	ER-ALL	195	4-1978					TABLE	19											
					PERCEN'	T FRE	QUENCY (F WA	E HEI	GHT (F	r) vs	HAVE P	ERIOD	(SECON	DS)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.8	7.6	9.8	7.1	2.2	3.6	.9	.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	5
6-7	.0	1.3	5.8	8.0	5.8	4.4		.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	59	6
8-9	.0	1.8	3.1	3.1	6.7	.9	1.3	.0	.4	.0	.0	.0	,0	.0	.0	.0	.0	.0	.0	39	6
10-11	.0	.0	.0	.0	.9	. 9	.4	.9	. 9	.0	.0	.0	.0		.0	.0	.0	.0	.0		10
12-13	.0	.0	.0	.0	.4	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.0	.4	.4	1.8	.4	.9	. 4	.0	.0	.0	.0		.0	.0	.0	.0	.0	10	9
INDET	2.2	. 9	1.8	2.2	.9	.4	2.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	5
PCT	4.0	26	46	20.9	17.3	28	6.2	7.7	9	.0	.0	0	.0	0	.0	.0	.0	.0	0	100.0	6

FEBRUARY

PERIOD: (PRIMARY) 1908-1978 (QVER-ALL) 1865-1978

TABLE 1

AREA 0027 VALDIVIA 40,45 74.4W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECT!	PERCENT	FREQUENCY	DF	WEATHER	DCCURRENCE	84	WIND	DIRECTION
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				,	EKCEN	T PREQU	ENCY C	F WEATHER	DCCURRENCE	BY MI	ND DIR	ECTION			
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	10.0	.0	12.5	.0	.0	.0	.0	19.2	9.2	.0	3.3	.0	.0	.0	68.3
NE	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
E SE	.0	.0	.0	.0	.0	.0	.0	.0	44.4	.0	.0	.0	.0	.0	55.6
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
5	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	1.9	.0	96.1
SH	2.6	. 9	3.5	.0	.0	.0	.0	7.0	3.5	.0	.0	.0	.0	.0	89.5
W	7.9	1.6	3.2	.0	.0	.0	.0	12.7	3.2	.0	5.6	.0	.0	.0	78.6
NW	9.0	3.0	. 7	.0	.0	.0	.0	12.7	6.7	.0	. 7	.0	.0	.0	79.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	85.7
TOT PCT	3.6	.7	2.9	•0	•0	.0	.0	6.9	3,6	.0	1.6	•0	.1	.0	87.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

					PI	ERCENT	FREQUE	NCY OF WE	ATHER OCCUR	RENCE	BA HOL	R			
			F	RECIPI	TATIO	TYPE					DTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	ORZL	FRIG PCPN	SNOW	DTHER FRIN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	4.1 4.5 1.4 4.5	.0 1.4 1.5	1.4 6.1 2.8 1.5	.0	.0	.0	.0	5.4 9.1 5.6 7.5	1.4 3.0 5.6 6.0	.0	3.4 .0 .0 1.5	•0	1.5 .0 1.5	.0	87.8 86.4 88.9 83.6
TOT PCT TOT DBS:	3.6 279	.7	2.9	•0	.0	.0	٠.0	6.8	3,9	,0	1.8	•0	.7	.0	86.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

				FERG	ENTANC	LKEROE	ACT DE	WIND C	******	N DY SPI	EEU AN	U B1 H	UUK					
HNO DIR	0-3		11-21			48+	TOTAL OBS	PCT	MEAN SPO	00	03	06	HOUR 09	(GMT)	15	16	21	
N NE	.9	2.9	2.7	.9	.1	.1		7.6	12.4	6.2	20.0			8,4		9.3		
Ε		1.7	.4	.0	.0	.0		1.4	7.6	2.3	.0	2.0		1.9		1.8	1.9	
SE	:4	4.3	3.0	.8	• 2	.0		9.0	11.3	6.8	.0	8.6	13.0	12.0	.0	7.5	7.5	
SW	2.3	12.0	7.0		.6	.0		18.6	13.5	21.9	47.5	38.9		35.4	27.3	31.2	35.3	
W	.,9	5.4	3.3	.,9	.1	.0		10.6	11.0	10.0	27.5	10.9		10.3		12.1	8.7	
VAR	.6	3.6				.1		9.9	13.6	8,2	.0			8.3	11.4	14.1	9.4	
CALM	4.3	.0	.0	.0	.0	,0		4.3	.0	3.7	.0	4.4		5.7	.0	3.1	4.1	
TOT DBS	238	776	759	197	33	3	2006		11.8	349	10	342	291	314	11	421	268	
TOT PCT	11.9	38.7	37.8	9.8	1.6	. 1		100.0		100,0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

			٠.

					TAB	LE 3A						
WND DIR	0=6	7=16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL	PCT	HEAN	00	06 09	12 15	
N NE E SE S W W W VAR CALM TOT DBS	2.1 1.1 .8 3.0 6.4 5.3 3.4 1.8	3.7 .7 .6 4.1 17.7 9.4 5.0 5.1	1.3 .3 .1 1.6 10.9 3.4 1.8 2.2 .0	.5 .0 .3 1.5 .5 .7		2006	7.6 2.1 1.4 9.0 36.5 18.6 10.6 9.9	12.4 8.1 7.6 11.3 13.5 11.4 11.0 13.6	40.8 21.4 10.5 8.0 21.4 21.4	6.4 1.8 1.9 10.6 38.9 15.8 10.5 9.2 4.9	9.2 3.2 1.8 11.6 35.1 14.7 10.5 8.4	8.4 1.9 1.5 7.5 32.8 21.4 10.7 12.3
TOT PCT	28.1	46.2	21,7	3.7	.3	2008	100.0	11.0	100.0			100.0

E	A	11	A	R	٧

BERTON:	(PRIMARY)	1008-1076
PER BOUT	(DUED-ALL)	

AREA 0027 VALDIVIA

PERCENTAGE	FREQUENCY	nF	WIND	SPEED	BY	HOUR	(GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
00603	3.6	6.4	38.2	38.7	11.4	1.7	.0	12.3	100.0	359
06609	4.9	8.2	38.2	37.4	8.5	2.2	.5	11.7	100.0	633
12615	5.5	9.2	38.2	35.7	9.8	1.5	.0	11.4	100.0	325
18421	3.5	6.8	39,6	38.8	10.2	1.2	.0	11.8	100.0	689
TUT	86	152	776	759	197	33	3	11.8		2006
DCT	4.3	7.6	28.7	37.A	0 8	1.6	. 1		100.0	

				4066 3									ADLE O					
	PCT FRE		OTAL O	LOUD A	TION	(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN	G HEIG	HTS (FT, NH 2	4/8) N	
WND DIR	0=2	3-4	5-7	8 & n85CD	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999		NH <5/8	
N	1.3	1.2	3.8	5.0		6.0	.0	.4	1,2	1.6	1.6	1.7	.4	.4	.0	.0	3.8	
NE	.4	.0	. 9	.0		5,3	.0	.0	.0	.0	.4	.0	. 4	.0	.0	.0	. 4	
E	.0	.3	.0	.0		4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
S E	.9	. 2	.4	. 4		3,9	.0	.0	.0	.0	.4	. 4	.0	.0	.0	.0	1.1	
S	15.4	7.3	9.5	6.5		3,7	. 4	.0	.0	3.4	2.4	3.2	. 8	. 3	. 3	.0	27.9	
SW	4.1	2.5	8.2	6.2		5,4	.0	.0	.0	3.6	2.4	3.5	1.1	.1	.1	. 4	9.8	
W	. 8	1.8	4.6	4.9		6.3	. 4	.0	. 4	. 9	2.2	2.4	.3	.0		.0	5.0	
NW	.5	.5	4.5	5.7		6.9	.0	.0	. 1	1.0	.5	3.6	.4	.0		.0	5.1	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	. 4	.4	.4	. 9		5,6	.0	.0	.0	. 4	.4	.4	.0	.0	.0	.0	. 9	
707 085	55	33	74	5.0	230			1	4	25	24	35	8	2	3	1	125	230
TOT PCT	23.9	14.3	32.2	29.6	100.0		. 9	.4	1.7	10.9	10.4	15.2	3,5	. 9	1.3	.4	54.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING MEIGHT (NM >4/8) AND VSBY (NM)

CEICING = OR = O										
CEICING **OR **OR **OR **OR **OR **OR **OR **O					VSBY (NM)					
= OR >6500 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	- DR	- OR	• OR			- DR	• DR	• OR	CEILING	
= RR 35000 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6	>0	>50YD	>1/4	>1/2	>1	>2	>5	>10	(FEET)	
= RR >5000 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	■ DR >6500	
= RR >2000 17.7 20.7 21.1 21.6 21.6 21.6 21.6 21.6 21.6 21.6	2.6	2.6		2.6			2.6	2.6	■ DR >5000	
= TK >1000 25.0 31.0 31.5 31.9 31.9 31.9 31.9 = TR >600 33.6 40.9 42.2 42.7 42.7 42.7 42.7	6.5	6.5	6.5	6.5	6.5	6.0	6.0	5.6	■ OR >3500	
= DR >600 33.6 40.9 42.2 42.7 42.7 42.7 42.7	21.6	21.6	21.6	21.6	21.6	21.1	20.7	17.7	■ DR >2000	
= OR >600 33.6 40.9 42.2 42.7 42.7 42.7 42.7	31.9	31.9	31.9	31.9	31.9	31.5	31.0	25.0	■ OK >1000	
# OR >300 33.6 41.8 43.1 43.5 44.4 44.4 44.4	42.7		42.7		42.7		40.9	33.6	■ DR >600	
	44.4				43.5		41.8	33.6	■ OR >300	
= OR >150 33.6 41.8 43.1 44.0 44.6 44.8 44.8	44.8		44.8	44.6	44.0		41.8	33.6	■ DR >150	
= NR > 0 33.6 41.8 44.0 44.8 45.7 45.7 45.7	45.7	45.7	45.7	45.7	44.8	44.0	41.8	33.6	- DR > 0	
TOTAL 78 97 102 104 106 106 106	106		106	106	104	102	97	78	TOTAL	

TOTAL NUMBER OF OBS1 232 PCT FREQ NH 45/81 54.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

O 1 2 3 4 5 6 7 8 OBSCO OBS 16.5 9.9 10.3 8.3 7.4 7.4 10.3 9.1 19.8 .8 242

-	-	-	_			-	
F	e	b	ĸ	u	A	ĸ	T

								FEE	RUARY						
PERIOD: (PRIMARY		908-1978 865-1978						т.	ABLE 8				ARE	A 0027	IVIA 74.4W
			P	ERCENT	PREC	OF WIN	D DIRE	CTION TH VAR	VS DC	URRENC VALUES	E OR N	IBILI	CURRENC TY	E OF	
	SBY		N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL	
•	1/2	PCP NO PCP TOT %	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	1.1		
1	/2<1	PCP NO PCP	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1	<2	PCP NO PCP TOT \$.7	.0	.0	.0	.0	.0	.0	.4	.0	.0	1.1		
2	<5	PCP NO PCP TOT \$.4	.0	.0	.0	.0 1.1 1.1	.0	.0	.7	.0	.0	1.4		
5	<10	PCP NO PCP TOT \$.3 2.0 2.3	:4	.0	.0	2.5	1.4 2.8 4.3	2.7	1.9	.0	.0 .7	2.5		
1	0+	PCP NO PCP TOT \$	5.9	.0 .7 .7	.0	2.2	33.6 33.6	.0 16.4 16.4	7.2 8.0	8.5 8.5	.0	1.4	76.4 77.2		
		TOT DES	10.9	1.8			37.6		11.4	12.1	.0		100.0	276	

VSBY	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(NM)	KTS 0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	OB\$
<1/2	4-10	.0	•0	.0	.0	.0	.0	.0	.0	:0	.,	.0	
	11-21	.0	.0	.0	.0	.3	.0	.0	.3	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.3	.0	.0	.3	.0	.3	.9	
	0-3	.0	•0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	. 3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.6	.0	.0	.0	.0	.3	.0	.0	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.6	.0	.0	.0	.0	.0	.0	.0	.0		.6	
	22+	. 3	.0	.0	.1	.1	.0	.0	.3	.0		. 9	
	TOT %	. 9	.0	.0	.1	.1	.0	.0	.3	.0	.0	1.5	
	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
2<5	4-10	.6	• 0	.0	.0	.6	.1	.1	.0	.0		1.5	
	11-21	.3	.0	.0	.0	. 3	.0	.3	.6	.0		1.5	
	22+	.4	.3	.0	.0	.0	.0	.0	.1	.0	-	.9	
	TOT \$	1.3	.3	•0	.0	1.2	.1	.4	.7	.0	.0	4.1	
	0-3	.1	.0	.0	.0	.0	.6	.3	-1	.0	1.2	2.4	
5<10	4-10	.5	.3	.0	.0	1.3	2.1	1.3	• 7	.0		6.2	
	11-21	1.2	.3	.3	.0	1.6	2.1	.9	.7	.0		7.1	
	22+	. 3	.0	.0	•0	.3	6	.0	3	.0		1.5	
	TOT *	2.1	.6	.3	•0	3.1	5.4	2.5	1.9	.0	1.2	17.2	
	0-3	1	•0	.0	.0	1.1		.0	1	.0	3.0	4.7	
10+	4-10	1.4	.3	.4	2.0	8.8	8.6	4.0	3.5	.0		28.4	
	11-21	3.2	.3	.0	.4	16.2	7.4	4.0	3.7	.0		35.2	
	22+	2	.0	.0	1	31.7	17.2	7.7	7.4	.0	3.0	7.1	
	TOT %	5.0	•6	.4	2.5	27.1	11.2			.0	3.0	13.4	
	OT OBS				2.7	36.5	23.1	10.7					338
	OT PET	9.9	1.5	.7					10.7	.0		100.0	

E			

PERIOD: (PRIMARY) 1908-1978 (DVER-ALL) 1865-1978

TABLE 10

AREA 0027 VALDIVIA 40.45 74.4W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND DEGURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150 299	300 599	999	1000	20 ⁰ 0 34 ⁹ 9	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	1.6	.0	4.8	8.1	14.5	4.8	3.2	.0	.0	.0	37.1	62.9	62
90300	1.9	.0	.0	9.6	5.8	17.3	1.9	.0	1.9	1.9	40.4	59.6	52
12615	.0	.0	1.6	12.7	12.7	22.2	4.8	1.6	1.6	.0	57.1	42.9	63
18621	.0	1.8	.0	12.5	7.1	16.1	5.4	1.8	1.8	.0	46.4	53.6	56
TOT	2	1	1.7	25	10.3	35	1.9	2	3	1	106	127	233

TABLE 11

TABLE 12

		PERCENT	FREQUEN	Y VSBY	(NM)	BY HOUR		CUMULAT	IVE PCT	FREQ G HGT	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	2.4	2.4	.0	2.4	15.7	77.1	83	00603	1.6	6.5	14.5	22.6	62.9	62
06609	.0	.0	2.2	6.7	19.1	71.9	89	06609	2.0	2.0	13.7	29,4	56.9	51
12815	.0	1.2	1.2	2.4	18.1	77.1	83	12615	.0	1.6	14.3	42,9	42.9	63
18621	1.2	.0	2.3	4.7	17.4	74.4	86	18621	.0	3.6	19.6	28,6	51.8	56
TOT PCT	.9	.9	1.5	4.1	17.6	256 75.1	341 100.0	TOT	.9	3.4	36 15.5	72 31.0	124 53.4	232

ABLE 13

					MOLE I	,									IABL	F 14				
	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY B	Y TEMP	TOTAL	PET		PERC	ENT FR	EQUENC	Y OF 1	IND DI	RECTIO	N BY	TEMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	Ε	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	1.8	1.3	.4	0	. 4	1.8	.3	.0	.0	.0	.9	.0	.0	.6	.0	.0
	.0	.0					2.7	1.3	18	8.0	1.8	.0		.1	3.1	1.3	.3	.6	.0	. 4
60/64	.0				7.1			6.7	91		3.9	.,	.0	. 4	13.8	9.8	4.0	6.8	.0	. 9
55/59	.0	. 0	.0	. 9	5.8	13.8	14.3	8.0	96	42.9	3.6	.4	.4	1.5	17.2	8.5	6.6	3.8	.0	.9
50/54	.0	.0	.0	.0	1.3	1.3	2.2	1.8	15	6.7	.0	. 9	. 2	1.1	2.1	1.0	1.0	. 3	.0	.0
TOTAL	0	C	0	10	36	66	72	40	224	100.0							-			
PCT	.0	.0	.0	4.5	16.1	29,5	32.1	17.9	-		9.6	2.2	1.0	3.1	37.2	20.6	11.9	12.1	.0	2.2

				TAE	LE 15									TABLE	16			
	MEANS,	EXTREM	ES AND	PFRCE	TILES	OF TE	MP (DE	G F)	Y HOUR		PERC	ENT FRE	QUENCY	OF RELA	TIVE H	YTIDIM	BY HOUR	
HOUR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00403	71	67	65	59	54	52	49	59.0	348	60803	.0	3,6	14.5	41.8	23.6	16.4	79	55
90360	67	65	52	57	53	50	49	57.5	624	90300	.0	2.0	16.0	30.0	34.0	18.0	79	50
12815	73	66	64	59	53	50	49	58.8	302	12615	.0	4.7	18.8	26.6	26.6	23.4	79	64
18821	77	70	67	61	55	52	49	61.2	518	18821	.0	7.0	14.0	21.1	43.9	14.0	79	57
TOT	77	68	65	59	54	51	49	59.1	1792	TOT	0	10	36	67	72	41	79	226

FEBRUARY

PERIOD: (PRIMARY) 1908-1978 (DVER-ALL) 1865-1978

TABLE 17

AREA 0027 VALDIVIA 40.45 74.4H

PET	FREQ	DF	AIR	TEMPERATURE	IDEG	F)	AND	THE	DCCURRENCE	OF	FDG	CWITHOUT	PRECIPITATION)
				VS AIR	-SEA	TE	MPERA	TURE	DIFFERENCE	11	DEG I	:)	

		-								
AIR-SEA	49		57		65	69	73	TOT	W	WD
THP DIF	52	56	60	64	68	72	76		FOG	FOG
14/16	.0	.0	.0	.0	.0	.0	:4	1	.0	.4
11/13	.0	.0	.0	.0	. 4	. 8	.0	3	.0	1.2
9/10	.0	.0	.0	.0	.0	. 4	.0	1	.0	.4
7/8	.0	.0	1.2	2.7	. 8	:4	.0	13	.0	5.0
6	.0	.0	.0	1.2	1.2	.0	.0	6	.0	2.3
5	.0	.4	.0	1.6	1.2	.4	.0	6	.4	3.1
4	.0	1.9	3.1	2.3	1.2		.0	20	.0	7.8
3	.0	. 8	2.3	1.2	1.2	.0	.0	14	. 4	5.0
2	.0	.8	4.3	4.3	1.2	.0	.0	27	.0	10.5
ī	.0	1.9	5.0	6.2	. 8	.0	.0	36	. 8	13.2
0	.0	. 8	8.5	4.3	.4	.0	.0	36	.4	13.6
-1	.0	2.7	6.6	1.2	.0	.0	.0	27	.0	10.5
-2	. 8	4,3	3.1	1.6	.0	.0	.0	25	.0	9.7
-3	1.2	1.9	4.7	. 8	.0	.0	.0	22	.0	8,5
-4	.0	1.6	. 8	. 8	.0	.0	.0	8	.0	3,1
-5	.0	. 4	1.6	.0	.0	.0	.0	8 5	.0	1.9
-6	.0	.0	.4	.0	.0	.0	.0	1	.0	. 4
-71-8	.0	1.2	.0	.0	.0	.0	.0	3	.0	1.2
-9/-10	.4	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	6		107		19		1		.0	253
		48		72	-	5	•	258	-	
PCT	2.3	18.6	41.5	27.9	7.4	1.9	.4	100.0	1,9	98,1

PERIOD: (DVER-ALL) 1963-1978

				PC	T FREQ OF	MIND	SPEED	(KTS)	AND DIR	ECTION (ERSUS S	SEA HEIG	HTS (FT)		
HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0			.0	.8	.0	.0	.0	.0	.8
1-2	.0	.0	1.7	.0	.0	.0	1.7		.0	.0	.0	:0	.0	.0	.0
3-4	.0	.8	.6	.0	.0	.0	1.5		.0		.0	.0	.0	.0	.0
5-6	.0	.0	, A	.0	.0	.0	. 8		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	. 8	.0	.0	.0	. 8		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12 13-16		.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	.0	.0	.0	.0	.0	8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	. 8	4.0	•0	.0	.0	4.9		.0	. 0	.0	.0	.0	.0	.8
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
1-2	.0	.6	.0	.0	.0	.0	.6		.0	1.1	.0	.0		.0	1.1
3-4	.0	.0	.0	.0	.0	.0	.0		.0	. 8	.0	.0	. 0	.0	
5-6	.0	.0	.0	.0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	-0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	. 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	. 2
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	-0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	,0	.0	.0	- 0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0000000N00000000N	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	1.9	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.0	.0	.0	.0	. 6		.0	1.9	.0	.0	,2	.0	2.1

								1	FEBRUARY							
PERIODI	COVER	(-ALL)	1963-1	978				TABLE	18 (CONT)			AREA	40.	VALDIVI	.4W
				PC	T FREQ D	F WIND	SPEED	(KTS)	AND DIRE	CTION	VERSUS S	EA HEIG	HTS (FT	,		
				5								SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	2.3	.0	•0	.0	.0	6.1		1.1	4.7	2.1	.0	:0	.0	7.8	
1-2	1.5	2.3	7.0	•0	.0	.0	9.3			3.0	4.0	.0	:0	.0	7.0	
5-6	.0	.0	6.4	.8	.0	.0	7.2		.0	1.7	3.8	.0	.0	.0	5.5	
7	.0	.0	2.5	.8	.0	.0	3.4		.0	.0	. 8	1.7	0	.0	2.5	
8-9	.0	.0	2.3	4.2	.0	.0	6.6		.0	.0	.2	.0	.0	.0	.2	
0-11	.0	.0	.0	.8	.0	.0	. 8		.0	.0	. 8	.0	. 0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.8	
3-16	.0	.0	.0	. 8	.0	.0	. 8		.0	.0	.0	.0	.0	.0	.0	
7-19	.0	. 8	.0	.0	.6	.0	1,5		.0	.0		.0	.0	.0	.0	
0-22	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
3-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
6-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
3-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-48	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	.0	•0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	:0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	:0		.0	.0	.0	.0	.0	.0	.0	
T PCT	1.5	6.1	20.6	7.6	.6	.0	36.4		1.1	10.4	12.7	1.7	.0	.0	25.8	
HGT	1-3	4-10	11-21	W 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
< 1	.0	1.5	.0	.0	.0	.0	1.5		.0	1.1		.0	.0	.0	1.1	
1-2	.0	.6	3.8	.0	.0	.0	4.4		.0	2.5	3,6	.0	.0	.0	6.1	
3-4	.0	4.7	2.5	.0	.0	.0	7.2		.0	1.1	1.9	.0	.0	.0	3.0	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	2.5	. 8	.0	.0	3.4	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
0-11	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
3-16	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
7-19	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
0-22	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
3-25	.0	.0	• 0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
6-32	.0	.0	• 0	.0	•0	.0	.0		.0	.0		.0	.0	.0	.0	
1-48	.0	.0	.0	•0	.0	.0	.0		.0	.0	•0	.0	:0	.0	.0	
9-60	.0	:0	.0	.0	•0	.0	:0		.0	:0	.0	.0	:0	.0	.0	
1-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	:0	.0	.0	
1-86	.0	:0	.0	.0	.0	.0	:0		.0	:0	.0	.0	:0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	1.7	5.1	.0	.0	.0	.0	6.8	003
1-2	2.5	11.9	13.6	.0	.0	.0	28.0	
3-4	.0	12.7	16.1	.0	.0	.0	28.8	
5-6	.0	1.7	11.0	.8	.0	.0	13.6	
7	.0	.0	5.9		.0	.0	9.3	
8-9	.0	.0	3.4	4.2	.0	.0	7.6	
10-11	.0	.0	1.7	. 8	.0	.0	2.5	
12	.0	.0	. 8	.0	.0	.0	.8	
13-16	.0	.0	.0	. 8	.0	.0	. 8	
17-19	.0	. 8	.0	.0	.8	.0	1.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
	-			• • •	•		•••	118
TOT PCT	4.2	32.2	52.5	10.2	. 8	-0	100-0	3.00

PERIOD	: cov	ER-ALL) 195	3-1978	1				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HEL	GHT (F	7) VS	WAVE P	ERIGO	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	.6	8.1	8.1	3.5	1.2	.6	.0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	38	3
6-7	.0	.6	3.5	5.8	5.8	2.9	1.7	3.5	.6	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	8
8-9	.0	4.0	.0	2.3	5.8	5.2	3.5	.6	.6	.0	.0	.0	.0		.0	.0	.0	.0	.0	38	7
10-11	.0	.6	.0	1.7	.6	2.9	1.7	.0		1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	9
12-13	.0	.0	.6	.0	.0	.6	.0	1.2		.0	.0	.0	.0		.0	.0	.0	.0	.0		8
>13	.0	.0	.0	.0	.6	.0		.0	1.7	.0	.0	.0	.0		.0	.0	.0	.0	.0	4	12
INDET	1.7	1.2	.6	.6	3.5	1.7	.6	1.7	2.9	1.2	.0	.0	.0		.0	.0	.0	.0	.0	27	. 8
TOTAL	4	25	22	24	30	24	13	12	10	9	0	0	0	0	0	0	0	0	0	173	7
PCT	2.3	14.5	12.7	13.9	17.3	13.9	7.5	6.9		5.2	.0	.0	-0	-0	-0	.0	-0	-0	-0	100.0	

AREA 0027 VALDIVIA 40.55 74.5W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUS BLWG SNO	
N	9.0	5.5	2.8	.0	.0	.0	.0	17.2	4.8	.0	.0	.0	.0	.0	77.
NE	17.1	.0	11.4	.0	.0	.0	.0	28.6	.0	.0	.0	.0	.0	.0	71.4
ε	19.4	.0	.0	.0	.0	.0	.0	19.4	.0	.0	.0	.0	.0	.0	80.6
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.
S	.0	.0	8.0	.0	.0	.0	.0	8.0	1.1	.0	.0	.0	.0	.0	90.
SW	.5	2.1	3.2	.0	.0	.0	.0	5.8	3.2	.0	4.2	.0	.0	.0	86.
W	2.9	1.9	1.9	.0	.0	.0	.0	6.8	3,4	.0	.0	.0	.0	1.9	87.
NW	11.4	2.3	4.6	.0	.0	.0	.0	18.3	2.9	.0	2.3	• 0	.0	.0	76.
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT TOT DBS:	4.5 281	1.8	4.3	.0	.0	• 0	.0	10.7	2,5	.0	1.1	•0	•0	.4	85.4

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00603 06609 12615 18621	9.2	1.0 .0 7.2 1.5	2.0 5.9 7.2 1.5	•0	.0	.0	.0	12.2 8.8 14.5 9.2	4.4 1.4 4.6	.0	1.0 1.5 .0 1.5	.0	.0	.0	86.7 85.3 84.1 83.1
TOT PCT TOT DBS:	5.0 300	2.3	4.0	.0	.0	.0	.0	11.3	2.3	.0	1.0	•0	•0	.3	85.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WIN	D SPE	ED (KN	ots)									(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	1.3	4.2	2.9	1.0	.3	.0		9.8	12.0	7.9	16.7	10.4	9.7	8.7	35.7	11.7	8.9
NE	.3	1.4	. 2	. 1		.0		2.0	7.1	1.2	.0	2.2	3.0	3,3	.0	1.5	. 6
Ε	.8	. 9	.5	.0	.0	.0		2.1	6.9	2.1	.0	2.9	2.7	2.1	7.1	1.6	1.4
SE	.8	3.5	3.6	. 9	.0	.0		8.8	11.6	5.7	.0	8.7	12.1	10.7	7.1	8.7	7.0
S	2.2	12.9	13.7	2.2	.2	. 0		31.3	11.7	32.1	.0	30.9	35.0	35.7	14.3	24.3	33.5
SW	1.6	7.7	6.5	1.3	.3			17.4	11.7	20.4	50.0	17.5	15.7	15.4	14.3	15.8	20.3
W	1.2	5.6	4.2	1.2	. 1	.0		12.3	11.3	13.0	16.7	11.4	8.3	10.3	.0	15.3	14.7
NW	1.3	4.5	4.7	1.1	. 3	.0		11.9	12.4	12.0	16.7	11.2	8.8	9.8	21.4	16.9	10.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0		.0	.0	.0
CALM	4.4	••	• •	•••	• •	•		4.4	.0	5,4	.0		4.8	4.2	.0	4.1	3.5
TOT DBS	310	904	808	176	28	1	2227		11.0	389	3	383	314	361	7	486	284
TOT PCT	13.9	40.6	36.3	7.9	1.3			100.0			100.0			100,0	100.0		

					TAB	LE 3A						
WND DIR	0-6	7=16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00	06 09	12 15	18
N NE	2.9	4.2	2.1	.5	.0		9.8	12.0	8.0	10.1	9.2	10.6
SE S	1.2	4.4	1.6	.3	.0		8.8	11.6	5.7	10.2	10.6	8.1
SW	7.7	8.9	3,0	.8	.1		31.3 17.4 12.3	11.7 11.7 11.3	31.9 20.7 13.1	32.7 16.7 10.0	35.3 15.4 10.1	27.7 17.5 15.1
NW VAR	3.9	5.7	2.2	.5	.2		11.9	12.4	12.1	10.1	10.1	14.4
CALM TOT OBS	697	1040	407	77	6	2227	4.4	11.0	392	697	4.1 368	3.9
TOT PCT	31.3	46.7	18.3	3.5	.3	-	100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1907-1978 (DVER-ALL) 1872-1978

AREA 0027 VALDIVIA 40.58 74.5W

PERCENTAGE	EREQUENCY	n.F	WIND	SPEED	RV	HOUR	(CHT)	

HOUR	CALM	1-3	4-10	W1ND	SPEED (48+	MEAN	PCT	TOTAL
60300	5.4	11.0	38,5	38.0	5.9	1.3	.0	10.7	100.0	392
90400	4.7	10.8	42.0	35.0	6.9	.6	.0		100.0	697
12615	4.1	7.3	45.4	32.9	9.8	.5	.0	11.1	100.0	368
18671	3.9	8.6	38.1	38.2	9.0	2.2	.1		100.0	770
TUT	99	211	904	808	176	28	1	11.0		2227
PCT	4.4	9.5	40.6	36.3	7.9	1.3			100.0	

P	CT FRE		DTAL (DIRFC	MOUNT O	(EIGHTHS)							CEILIN NH <5/					
WND DIR	0=2	3-4	5-7	8 & 085CP	TOTAL	CLOUD COVER	000 149	150	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	1.2	.4	4.1	6.7		6,6	.0	.4	.3	.4	3.2	3.1	.8	1.0	.0	.4	2.8	
NE	.0	. 4	1.2	1.8		6.9	.0	.4	. 4	.4	.5	. 8	.0	.0	.0	.0	. 8	
E	.7	. 7	.0	.5		3,4	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	1.4	
SE	. 6	.6	.4	. 2		3,3	.0	.0	.0	.0	.4	.0	.0	.0	.0	.1	1.3	
S	5.8	5.4	10.8	5.5		4.8	.0	. 8	. 3	.6	6.8	3.7	1.0	.4	.3	.7	12.7	
SW	3.8	3.3	5.1	4.9		5.0	. 8	.0	. 9	.7	3.3	.6	1.0	.0	.1	.0	9.5	
W	3.6	3.8	8.2	3.7		4.9	.0	.0	. 4	2.0	3.1	2.4	4	.0	.0	.0	11.1	
NW	2.0	1.0	4.0			6,1	. 4	.4	. 9	.4	2.4	3.0	. 0	. 2	.4	.0	5.4	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	.4	1.2	.0		3,8	.0	.0	.0	.0	.0	. 8	.0	.0	.0	.4	1.7	
TOT OBS	46	39	85	72	242	5,3	3	5		11	49	35	8		2	4	113	242
TOT PCT	19.0	16.1	35.1	29.8	100.0		1.2	2.1	3,3	4.5	20.2	14.5	3.3	1.7	. 8	1.7	46.7	100.0

	TABLE 7
CUMULATIVE PCT FREQ	OF SIMULTANEOUS DECURRENCE

				VSBY (NH	1)			
ILING	 OR 	 OR 	a DR	- OR	• DR	 OR 	· OR	= OR
EET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.8	2.8	3.2	3.2	3.2	3.2	3.2	3.2
>3000	3.2	4.4	4.8	4.8	4.8	4.8		4.8
>3500	5.6	7.5		7.9	7.9			7.9
>2000	13.5	21.4		22.2	22.2			22.2
>1000	25.0	39.3		42.1	42.1			42.1
>600	28.6	43.3		46.4	46.4			46.4
>300	30.2							50.0
>150	30.6	46.4		51.6	52.0			52.0
> 0	30.6	46.4		52.0	52.8			53.2
TOTAL	77	117	127	131	133	133	134	134
	>6500 >3000 >3500 >3500 >2000 >1000 >600 >300 >150 >101	>6500 2.8 >3000 3.2 >3500 5.6 >2000 13.5 >1000 25.0 >600 28.6 >300 30.2 >150 30.6	>6500 2.8 2.8 3.9 3.0 3.2 4.4 3.3500 5.6 7.5 3.2000 13.9 21.4 3.3 3.000 25.0 39.3 3.000 25.0 39.3 3.300 30.2 45.2 3.150 30.6 46.4 3.0 30.6 46.4	>5500 2.8 2.8 3.2 3.500 3.2 4.4 4.8 3.2 3.500 3.2 4.4 4.8 3.2 3.500 5.6 7.5 7.5 7.9 3.000 25.0 39.3 41.7 3.000 25.0 39.3 41.7 3.000 25.0 39.3 40.0 3.000 25.0 39.3 40.0 3.000 25.0 39.3 40.0 3.000 25.0 39.3 40.0 3.000 25.0 40.2 3.000 25.0 40.2 3.000 25.0 40.4 50.4 4.0 2.0 30.6 46.4 50.4 4.0 2.0 30.6 46.4 50.4	FILING * OR * O	PEET) >10 >5 >2 >1 >1/2 >6500 2.8 2.8 3.2 <td>Filing * OR * O</td> <td>FILING = OR FEET) >10 >5 >2 >1 >1/2 >1/4 >50VD >50VD >5000</td>	Filing * OR * O	FILING = OR FEET) >10 >5 >2 >1 >1/2 >1/4 >50VD >50VD >5000

TOTAL NUMBER OF OBS1 252 PCT FREQ NH <5/81 46.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCO	OBS
10.3	9,2	8.8	10.3	7.3	7.3	8,4	11.5	26.0	1.1	262

		H

							,	IANCH					
PERIOD: (PRIMARY) 1 (OVER-ALL) 1	907-1978 872-1978						TA	BLE 8				ARE	40.55 74.5
		P	ERCENT	FRED	DF WIN	D DIRE	CTION TH VAR	VS DCC	URRENC	E OR N	ON-OC	CURRENC	E OF
VSBY (NM)		N	NE	E	SE	5	SW		NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP NO PCP TOT \$.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1/2(1	PCP NO PCP	.0	:0	.0	.0	.7	:1	:0	:0	.0	.0	.4	
1<2	PCP ND PCP	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.8	
	TOT %	.4	.6	.0	.0	.4	.0	,0	.4	.0	.0	1.1	
2<5	NO PCP	1.0	.4	.0	.1	.3	.0	1,1	.0	.0	.0	1.9	
5<10	PCP NO PCP TOT \$	1.7 2.9 4.6	.1	.3	.0	3.6 4.7	2.8 2.9	2.7 3,2	2.2 2.9 5.1	.0	.4	6.1 16.0 22.1	
10+	PCP NO PCP TOT %	7.8 7.8	1.9 1.9	1.5 1.5	1.4	20.2	13.1 13.1	13.8 13.8	8.4 8.7	.0	2.7 2.7	70.7	
	TOT 085	13.8	3.1	1,8		26.1			14.4	.0		100.0	263

TABLE 9

(NM)	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	•0	.0	•0	.0	.0	.0	.0	.0	.3	.3	000
(1/2	4-10	.0	.0	.0	.0	.6	.6	.0	.0	.0		1.2	
	11-21	.0	.0	.0	.0	.0	. 3	.0	.0	.0		.3	
	224	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	.0	.0	.6	.9	.0	.0	.0	.3	1.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
/2<1	4-10	.3	.0	.0	.0	.0	.3	.0	.0	.0		.6	
	11-21	.0	.0	.0	.0	.5	. 1	.0	.0	.0		.6	
	55+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	•0	•0	.0	. 5	.4	.0	.0	.0	.0	1.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
1<2	4-10	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.3	.0	.0	.3	.0		. 6	
	425	. 5	.0	.0	.0	.0	.0	.0	.2	.0		.6	
	TOT &	.5	•0	.0	.0	.3	.0	.0	.5	.0	.6	1.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
2<5	4-10	.5	.6	.0	.1	.2	.6	.6	.2	.0		2.8	
	11-21	.5	.2	.0	.0	.0	.0	.3	.3	.0		1.2	
	22+	. 2	•0	.0	.0	.0	.0	.0	-1	.0		.3	
	TOT \$	1.2	.8	.0	.1	.2	.6	.9	.5	.0	.6	4.9	
-	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
5<10	4-10	. 5	.1	.2	.3	1.4	.8	1.2	2.0	.0		6.5	
	11-21	2.8	.3	.0	.0	2.6	1.3	1.6	1.8	.0		10.5	
	224	.6	.0	.0	.0	.5	.5	.0	. 6	.0		2.2	
	TOT %	3.8	.4	.2	.3	4.5	2.6	2.8	4.5	.0	.3	19.4	
	0-3	. 9	.0	.6	.5	1.2	1.2	.9	.3	.0	2.8	8.3	
10+	4-10	3.7	1.5	.6	1.3	7.4	6.1	7.1	2.5	.0		30.2	
	11-21	2.3	.0	. 5	.3	11.1	4.9	3.4	3.7	.0		26.2	
	22+	6	.0	.0	.2	2.5	8	6	1.5	.0		6.2	
	TOT \$	7.5	1.5	1.7	2.2	22.1	12.9	12.0	8.0	.0	2.8	70.8	
	nT 085												325
	OT PET	13.3	2.7	1.9	2.6	28.2	17.5	15.7	13.5	.0		100.0	

		H	

PERIOD: (PRIMARY) 1907-1978 (DVER-ALL) 1872-1978

TABLE 10

AREA 0027 VALDIVIA 40.55 74.5W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	949	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL DBS
00603	1.5	2.9	2.9	4.4	22.1	8.8	1.5	2.9	.0	2.9	50.0	50.0	68
06609	1.6	.0	3.2	3.2	20.6	9.5	3.2	.0	1.6	3,2	46.0	54.0	63
12615	.0	4.5	3.0	7.6	24.2	16.7	3.0	1.5	1.5	.0	62.1	37.9	66
18821	1.7	1.7	5.2	1.7	10.3	22.4	5.2	1.7	1.7	1.7	53.4	46.6	58
TOT	3	. 6	9	11	50	36	8		. 3	. 5	135	120	255

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(MM)	BY HOUR		CUMULAT	CEILIN	FREQ	(FEET	GES OF NH >4/8	VSBY (NM)), BY HOUR	AND/DR	
HOUR (GMT)	<1/2	115<7	745	2<5	5410	10+	TOTAL DBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS	
00603	2.4	1.2	2.4	3.5	20.0	70.6	85	00403	1.5	7.5	16.4	34,3	49.3	67	
90360	1.1	3.2	1.1	5.3	18.1	71.3	94	06809	1.6	6.3	11.1	36.5	52.4	63	
12615	.0	.0	2.7	6.7	18.7	72.0	75	12615	.0	6.3	18.8	46,9	34.4	64	
18621	3.7	.0	2.4	4.9	20.7	68.3	82	18621	1.7	8.6	13.8	39.7	46.6	58	
TOT PCT	1.8	1.2	2.1	5.1	19.3	70.5	336 100.0	TOT	1.2	18	38	39.3	115	252	

	PERCENT	FR	EQUENCY	DF W	IND DIE	RECTION	BY	TEMP
N	NE	€	SE	S	SW	W	NW	AV
.0	.0	.0	.0	.4	.0	.3	.1	
.4	.0	.0	.0	. 3	• 1	. 4	.4	
5.1	1.5	.0	.4	8.0	6.2	6.5	8.2	
5.5	1.8	. 5	. 9	11.6	8.8	11.2	5.8	
.4	.0	.6	1.1	2.3	3.4	. 8	1.5	

11.3 3.4 3.2 2.3 22.6 18.6 19.2 16.1

	PERC	ENT FR	EQUENC	Y OF R	ELATIV	HUMI	DITY B	Y TEMP		
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ
70/74	.0	.0	.0	.4	.0	.4	.0	.0	2	. 8
65/69	.0	.0	.0	.0		.0	1.1	. 4	5	1.9
60/64	.0	.0	.4	. 4	3.8	12.3	13,4	6.1	95	36.4
55/59	.0	.0	1.9	. 8	5.0	14.2	13.8	13.0	127	48.7
50/54	.0	.0	.0	. 8	3.1	3.1	5.0	. 4	32	12.3
TOTAL	0	0	6	6	32	78	87	52	261	
PCT	.0	.0	2.3	2.3	12.3	29.9	33,3	19.9		

TABLE 15 MEANS, EXTREMES AND PERCENTILES OF TEMP IDEC F) BY HOUR

MAX 99% 95% 50% 5% 1%
66 65 63 57 52 50
76 63 62 56 51 49
72 65 63 57 52 50
74 69 65 59 54 50
76 67 64 57 52 50

1% MIN MEAN TOTAL 085
50 48 57,3 407
49 45 50,2 700
50 49 57,3 368
50 48 59,3 654
50 45 57,5 2129

TABLE 16 PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

NW VAR CALM

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00603	.0	4.7	10.3	29.0	32.7	23.4	81	107
90300	.0	2.9	10.1	24.6	34.8	27.5	83	69
12615	.0	3.9	13.0	27.3	33.8	22.1	BO	77
18621	.0	4.3	15.9	31.9	36.2	11.6	78	69
TOT	0	13	39	91	110	69	81	322

PERIOD: (PRIMARY) 1907-1978 (OVER-ALL) 1872-1978

TABLE 17

AREA 0027 VALDIVIA 40.55 74.5W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

IR-SEA	49 52	53 56	57 60	61	68	69 72	73 76	τατ	FOG	FOG
11/13	.0	:0	.0	.0	.0	.7	.0	2	.0	1:1
9/10	.0	.0	.0	.4	.4	.0	. 4	3	.0	1.1
7/8	.0	.0	.0	. 4	.0	.0	.0	1	.0	.4
	.0	.0	.0	1.4	.0	.0	.0	4	.0	1.4
5	.0	.0	1.1	1.4	.0	.0	.0	7	.0	2.5
4	.0	.0	2.5	2.1	.0	.0	.0	13	.0	1.4 2.5 4.6
3	.0000	.0	3.2	4.2	.7	.0	.0	25	.0	8.8
2	.4	. 7	4.2	2.5	.0	.4	.0	23	.4	7.7
	.0	.7	6.0	3.9	.0	.0	.0	30	.0	10.6
Ö	.0	3.2	6.3	2.8	. 4	.0	.0	36	.0	12.7
-1	.0	3.2	9.2	3.2	.0	.0	.0	44	.0	15.5
-2	.4	6.7	6.7	1.4	. 4	.0	.0	44	. 4	10.6 12.7 15.5 15.1
1 0 -1 -2 -3	.0	1.8	4.2	1.4	.0	.0	.0	19	.0	6.7
-4	.0	3.9	1.4	.0	. 0	.0	.0	15	.0	5.3
-5	.7	1.1	. 7	.0	.0	.0	.0	-7	.0	5.3 2.5 1.4
-6	1.1	***	.7	.0	.0	.0	.0		.0	1.4
-7/-8	.4	.4	. 4	. 0	.0	.0	.0	3	.0	1.1
-9/-10	1.1	• •		. 0	.0	.0	.0		.0	1.4
TOTAL	11		131	••	.,		1	•	2	282
TOTAL	11	44	131	69	•	3	•	284	•	202
PCT	3.9	22.5	46.1	24.3	1.8	1.1	.4	100.0	.7	99.3

PERIOD: (DVER-ALL) 1963-1978

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) NE 22-33 ... 0 ... HGT
<1
1-2
3-4
5-6
7
8-9
10-11
12
13-16
17-19
23-25
26-32
23-25
26-32
41-48
49-60
61-70
71-86
87+
TOT PCT 1-3 1-3 34-47 11-21 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 23-25 26-22 23-25 26-23 41-48 49-60 61-70 71-86 87+ 1-3 34-47 1-3 11-21

PERIODI	/ DVE		1040						HARCH					0027		
PERTOUT	LUVE	-ALL)	1403-1	978				TABLE	18 (CDN	,			AREA	40.		.5W
				PC	T FREQ D	WIND	SPEED	(KTS)	AND DIRE	CTION	VERSUS	SEA HETO	HTS (FT			
HGT	1-3	4-10	11-21	5 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	2.2	.0	.0	.0	.0	2,2		.9	1.		.0	.0	.0	2.0	
1-2	.0	1.6	5.1	.0	.0	.0	6.7		.0	2.2			.0	.0	2.5	
3-4	.0	6.0	8.7	2.5	.0	.0	17.2		.0	2.9			.0	.0	7.1	
5-6	.0	.0	1.8	.0	.0	.0	1,8		.0				.0	.0	1.8	
7	.0	.0	1.8	.0	.0	.0	1,8		.0		2.0		.0	.0	2.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	. 9	
10-11	.0	.0	.7	.7	.0	.0	1,3		.0	. (0	. 0	.0	.2	
12	.0	. 7	.0	3.3	.0	.0	4.0		.0	. (.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	,0		.0				000000000000000000000000000000000000000	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	, 0		.0	. (.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	. (. 0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
87+	.0	. 0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
TOT PCT	.0	10.5	18.1	6.5	.0	.0	35.0		.9	7.			.0	.0	17.0	
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	484	PCT	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6		.0	1.	1 1.0	.0	.0	.0	2.9	
1-2	.0	4.9	.7	.0	.0	.0	5.6		.0	1.3			.0	.0	2.5	
3-4	.0	3.3	2.2	.0	.0	.0	5.6		.0	1	2.0		.0	.0	3.3	
5-6	.0	.0	.9	.0	.0	.0	.9		.0	. (.0	.0	1.8	
7	.0	.0	.7	.0	.0	.0	.7		.0	. (.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
12	.0	.0	.7	.0	.0	.0	. '		.0	. (.0	.0	.0	
13-16	.0	.0	1.6	.0	.0	.0	1.6		.0	. (.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0		.0		0 .0		.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	. (000000000000000000000000000000000000000	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
87+	.0	9.8	6.7	.0	.0	.0	.0		.0				:0	.0	.0	
TOT PCT	.0			.0		.0	16.5		.0	3.	B 7.6	.0		.0	11.4	96.4

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	5.4	11.6	1.8	.0	,0	.0	18.8	003
1-2	. 9	11.6	8.9	.0	.0	.0	21.4	
3-4	.0	15.2	16.1	3,6	.0	.0	34.8	
5-6	.0	1.8	6.3	.0	.0	.0	8.0	
7	.0	.0	4.5	.0	.0	.0	4.5	
8-9	.0	.0	. 9	, 9	.0	.0	1.8	
10-11	.0	.0	. 9	, 9	.0	.0	1.8	
12	.0	. 9	. 9	3.6	.0	.0	5.4	
13-16	.0	.0	2.7	.9	.0	.0	3.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								112
TOT DET	4.3	41.1	42 0	0.8	- 0	- 0	100-0	

PERIOD	: (DV	ER-ALL	195	2-197	9				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HEI	GHT (F	r) vs	WAVE P	ERIOD	(SECOND	(20						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20=22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	.9	9.0	10.4	3.6	2.7	.9	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	4
6-7	.0	.9	2.7	2.7	5.4	3.2		3.6	1.4	.0	.0	.0	.0		.0	.0	.0	.0	.0	46	7
8-9	.0	3.6	3.2	5.0	5.4	5.4	1.4	3.2	.5	.0	.0	.0	.0		.0	.0	.0	.0	.0	61	6
10-11	.0	2.7	. 9	1.4	1.4	2.7	1.4	.9	.5	.0	.0	.0	.0		-0	.0	.0	.0	.0	26	7
10-11	.0	.0	1.8	.0	.5	.5	.5	.9	.5	.0	.0	.0	.0		.0	.0	.0	.0	.0	10	7
>13	.0	.0	.0	1.4	.5	. 5	.5	.0	.5	.0	.0	.0	.0		.0	.0	.0	.0	.0	7	8
>13 INDET	.9	.5	.5	.9	.0		.0	.0	. 5	.0	.0		.0		.0	.0		.0	.0	7	4
TOTAL	4	37	43	33	35	29	13	19	8	0	0	0	0	0	0	0	0	0	0	221	6
PCT	1.8	16.7	19.5	14.9	15.8	13.1	5.9	8.6	3.6	-0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1907-1975 (DVER-ALL) 1871-1975

TABLE 1

AREA 0027 VALDIVIA 40.35 74.5W

PERCENT	FREGUENCY	ne.	WEATHER	DCCURRENCE	 MIND	DIRECTION

									a designation of the contract						
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUS' BLWG SNO	
N NE	8.6	7.0	7.5	:0	.0	.0	6.2	23.1	5.4	:0	6.2	:0	.0	:0	71.5
E	.0	6.2	9.8	.0	.0	.0	.0	9.8	.0	.0	.0	.0	.0		90.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
S	3,9	1.4	.0	.0	.0	.0	.0	5,3	2.5	.0	3.6	.0	.0		88.6
SW	. 8	6.3	7.8	.0	.0	.0	.0	14.8	. 8	.0	1.6	• 0	3.1	.0	79.7
W	7.3	5.3	8.0	.0	.0	.0	2.7	20.7	2.7	.0	2.7	2.7	.0		71.3
NW	10.3	8.7	5.6	.0	.0	.0	.0	24.6	10.3	.0	.0	.0	.0	.0	65.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.0	.0	10.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
TOT PCT TOT DBS:	6.1	4.6	4.9	.0	.0	•0	.8	16.0	3.8	.0	1.9	.4	.4	.0	77.6

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00603 06609 12615 18621	7.1 8.6 4.1 5.8	1.8 4.3 4.1 7.2	8.9 4.3 2.7 4.3	.0	.0	.0	.0 1.4 1.4	16.1 17.1 12.2 18.8	1.8 2.9 4.1 5.8	.0	3.6 .0 .0 4.3	1.8 .0 .0	1.4	.0	76.8 80.0 82.4 71.0
TOT PCT TOT OBS:	6.3	4.5	4.8	.0	•0	•0	.7	16.0	3.7	.0	1.9	.4	.4	.0	77.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WIN	D SPE	ED (KNO	TS)								HOUR	(GMT)			
WND DIR	0-3			22-33		48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N NE	1.2	2.1	5.9	2,4	• 9	.1		16.6	14.5	16.4	.0	16.0		15.2	14.3	18.0	15.2
E	.6	1.8	.7		.0	.0		3.2	7.7	2,5	.0	2.9	4.3	4.9	10.7	2.1	2.5
SE	.7	4.3	3.8	.6	.0	.0		9.4	10.7	6.1	.0	7.9	13.4	13.4	21.4	9.4	6.0
S	1.3	9.7	8.5	2,5	.2	.0		22.2	12.2	23.0	66.7	25.7	18.3	19.4	50.0	19.1	28.2
SW	.6	5.9	3.6	1.1	.2	.0		11.3	11.4	14.2	.0	10.4	11.1	10.9	.0	10.2	12.0
W	1.1	5.6	3.9	1.8	.5			12.8	13.0	15.3	33.3	11.4	9,3	12.2	.0	15.1	12.8
NW	. 8	5.8	5.9	3,2	.7			16.4	15.0	17.0	.0	14.4	16.1	14.1	.0	18.2	19.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0	2,3	.0	5.9	3,3	5,5	.0	2.4	2.5
TOT OBS	216	828	670	244	50	5	2013		12.3	342	3	374	305	329	7	413	240
TOT PCT	10.7	41.1	33.3	12.1	2,5	. 2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Δ	A	L	F	2	A	

DBS FREQ SPD 03 09 15	
N 3.5 7.4 3.8 1.6 .3 16.6 14.5 16.3 16.9 15.2 NE 1.7 1.7 .6 .3 .1 4.4 11.7 3.2 5.7 4.5	17.0
N 3.5 7.4 3.8 1.6 .3 16.6 14.5 16.3 16.9 15.2 NE 1.7 1.7 .6 .3 .1 4.4 11.7 3.2 5.7 4.5	3.8
E 1.6 1.5 .1 .0 .0 3.2 7.7 2.5 3.6 5.0	2.3
E 1.6 1.5 .1 .0 .0 3.2 7.7 2.5 3.6 5.0 SE 3.0 4.8 1.4 .3 .0 9.4 10.7 6.0 10.3 13.5	8.2
SE 3.0 4.8 1.4 .3 .0 9.4 10.7 6.0 10.3 13.5 S 5.9 10.4 5.0 .9 .0 22.2 12.2 23.4 22.4 20.0	22.5
SW 3.5 5.5 1.8 .5 .0 11.3 11.4 14.1 10.7 10.7	10.8
W 3.5 5.5 2.9 .8 .2 12.8 13.0 15.4 10.5 11.9	14.2
NW 2.8 7.0 4.8 1.7 .1 16.4 15.0 16.8 15.2 13.8	18.8
VAR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
	2.5
CALM 3.7 TOT OBS 586 880 412 121 14 2013 12,3 345 679 336	653
TOT PCT 29.1 42.7 20.5 A.0 .7 100.0 100.0 100.0 100.0	

Δ	P	R	t	L

PERIOD:	(PRIMARY)	1907-1975
	(OVER-ALL)	1871-1975

AREA 0027 VALDIVIA 40.35 74.5W

PERCENTAGE	FREQUENCY	nF	WIND	SPEED	BY	HOUR	(GMT)

				MIND	SPEED (KNOTS?			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21		34-47	48+	MEAN	FREQ	OBS
00603	2.3	6.7	41,2	34.2	11.3	4.1	.3	12.7	100.0	345
06609	4.7	6.6	42.6	32.3	11.6	2.1	. 1	11.8	100.0	679
12515	5.4	7.1	41.1	31.5	14.0	.9	.0	11.7	100.0	336
18521	2.5	7.7	39.7	34.8	12.1	2.9	.5	12.8	100.0	653
TUT	74	142	828	670	244	50	5	12.3		2013
PCT	3.7	7.1	41.1	33.3	12.1	2.5	. 2		100.0	

р	CT FRE		OTAL O	DIREC	TION	(EIGHTHS)			PERCEN	TAGE P	REQUEN	CY DF	CEILIN	B BY W	HTS (T,NH)	4/8)	
WND DIR	0-2	3-4	5-7	8 &	TOTAL	MEAN CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999		NH <5/8	TOTAL
N	.0	.4	4.4	10.1		7.3	.0	.0	.4	2.0	7.2	.3	.4	.0	.0	.0	4.5	
NE	.6	. 1	.7	3.4		7.0	.0	.0	.0	1.9	1.9	.1	.0	.0	.0	.0	. 8	
E	1.2	1.5	1.6	.0		3.7	.0	.0	.0	.0	.0	.3	.4	.0	.3	.0	3.1	
SE	1,6	.2	1.1	. 4		3,4	.0	.0	.0	.0	.6	.0	. 4	.0	.1	.0	2,2	
S	15.6	3.8	5.4	5.4		3,2	.4	.0	. 9	1.3	3.3	1.3	. 9	. 4	.0	.0	21.5	
SW	3.0	2.1	5.9	. 6		4,5	.0	.0	.0	. 1	2.5	1.0	.4	.0	.0	. 1	7.5	
W	1.7	4.3	5.2	4.6		5,4	. 4	.0	. 9	2.1	2.8	1.0	. 8	.4	.0	.3	6.8	
NW	.6	.1	6.3	3.8		6.6	.0	.0	.4	1.5	2.5	.8	1.0	.0	.0	.0		
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8	. 4	.4	1.8		4.7	.0	.0	. 9	.0	. 9	.0	.0	.0	.0	.0	2.7	
TOT OBS	58	29	69	67	223	4,9	2	0	8	20	48	11	10	,	1	.,	120	223
TOT PCT	26.0	13.0	30.9	30.0	100.0		, 9	.0	3,6	9.0	21.5	4.9	4.5	.9		.4	53.8	100.0

TABLE 7

CUMILIATIVE	DET EDEA	OF	SIMULTANEOUS	DECHIDACHICE

					VSBY (NM			****	-
	CEILING	• OR	• DR	• OR	• DR	 OR 	- OR	• OR	= DR
	(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
	R >6500	.9	.9	.9	.9	.9	1.8	.9	.9
	R >5000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Ī	OR >3500	4.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6
	OR >2000	8.3	11.4	11.4	11.4	11.4	11.4	11.4	11.4
	OR >1000	21.5	32.0	32.5	32.5	32.5	32.5	32.5	32.5
9	- DR >600	25.9	39.9	42.1	42.1	42.1	42.1	42.1	42.1
1	OR >300	25.9	41.2	44.3	45.2	45.2	45.6	45.6	45.6
1	OR >150	25.9	41.2	44.3	45.2	45.2	45.6	45.6	45.6
i	DR > 0	25.9	41.2	44.3	45.6	46.1	46.5	46.5	46.5
	TOTAL	59	94	101	104	105	106	106	106

TOTAL NUMBER OF OBS1 228 PCT FREQ NH 45/81 53.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

O 1 2 3 4 5 6 7 8 OBSCD OBS 14.8 8.5 11.0 11.0 7.6 8.9 6.8 10.2 20.3 .8 236

							4	PRIL					
PERIOD: (PRIMARY) :	907-1975 871-1975						7.4	BLE 6				ARE	40.35 74.5W
		P	ERCENT	PREC	DF WIN	U DIRE	CTION TH VAR	VS DCC	URRENC	E DR N	IBILI	CURRENC	E DF
V88V (MM)		N	NE	E	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL
<1/2	PCP ND PCP TOT %	.0	.0	.0	.0	.0	.0	000	.4	.0	.0	.4	
1/2<	PCP ND PCP TOT %	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP NO PCP TOY %	.4	.0	.0	.0	.4 .7 1.1	.0	.0	.0	.0	.4	1.5	
245	PCP NO PCP TDY %	.8 .3 1.1	.5	.0	.0	.3	·1 ·0	.0	.0	.0	.0	1.9	
5<10	PCP NO PCP TOT \$	3.0 3.2 6.1	1.2	.6	.0	3,3 3,6	.6 2.4 3.0	1.8	2.6 3.7 6.3	.0	.4	9.6 16.1 25.7	
10+	PCP NO PCP TOT *	10.2 10.2	2.5 3.3	3.0 3.0	2.9	21.2	1.1 8.0 9.1	9.8 9.8	5.0 5.4	.0	2.7	2.7 65.1 67.8	
	TOT DES	17.8	6,2	3,5	3.4	26,9	12.3	14.0	12.1	.0	3,8	100.0	261

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)	SPO	N	NE	E	SE	s	SW	W	NW	VAR	CALM	pCT	TOTAL
	0-3	.0	• 0	• 0	.3	.0	.0	.0	.0	.0	.0	.3	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.3	.0		, 3	
	22+	.0	.0	.0	.0	.0	.0	, Q	.3	.0		.3	
	TOT %	.0	.0	• 0	.3	.0	.0	.0	.6	.0	.0		
	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	4-10	.0	.3	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	. 3	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT #	.1	. 4	.0	.0	.0	.0	, 3	.0	.0	.0	.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
1<2	4-10	.0	.0	.0	.0	. 8	. 1	.0	.0	.0		.9	
	11-21	.0	.0	.0	.0	.0	.0	. 3	.0	.0		.3	
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT *	.3	.0	.0	•0	. 8	.1	.3	.0	.0	.3	1.8	
	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
2<5	4-10	.0	.0	.0	.3	. 3	.0	.0	.0	.0		.6	
	11-21	1.4	. 5	.0	.0	.3	.1	.4	.1	.0		2.9	
	22+	. 3	.0	.0	.0	. 2	. 1	.3	.0	.0		.9	
	TOT %	1.7	.5	.0	.3	1.1	.2	.7	.1	.0	.0	4.7	
	0-3	.4	.4	.0	.0	.0	.0	.0	.3	.0	.9		
5<10	4-10	1.0	.5	. 2	.4	1.8	1.7	. 9	1.5	.0		7.9	
	11-21	3.2	.5	.2	.3	1.8	1.1	. 8	2.9	.0		10.9	
	224	1.2	.3	.0	.0	.3	.1	.7	. 9	.0		3.5	
	TOT %	5.9	1.8	.4	.7	3.9	2.9	2.3	5.6	.0	. 9	24.3	
	0-3	.3	• 1	.5	.3	.0	.4	.8	.3	.0	3.2		
10+	4-10	6.2	1.2	.7	1.6	7.5	6.0	2.9	2.1	.0		28.2	
	11-21	2.3	.5	1.5	1.2	12.5	3.8	3.7	1.7	.0		27.3	
	22+	. 5	.9	.0	.0	2.3	.4	1.8	.4	.0	- 5	6.2	
	TOT %	9.0	2.6	2.7	3.1	22.4	10.6	9.2	4.5	,0	3.2	67.4	
	nt gas		-										341
7	nt pet	17.0	5.4	3.2	4.3	28.2	13.9	12.9	10.9	.0	4.4	100.0	

PERIODI	(PRIMARY)	1907-1975
	(DVER-ALL)	1071-1075

TEMP F

TABLE 10

AREA 0027 VALDIVIA 40.35 74.5W

PERCENT	FREQUENCY	OF	CFILING	HEIGHTS	CEEFT.NH	>4/81	AND
. Eugen.			HEE OF N			,,,,,	-14-

HOUR (GMT)	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	2.1	.0	2.1	12.8	21.3	4.3	2.1	.0	.0	2.1	46.8	53.2	47
90300	.0	.0	7.0	7.0	14.0	1.8	6.6	.0	.0	.0	38.6	61.4	57
12615	1.5	.0	•0	7.6	24.2	4.5	6.1	.0	1.5	.0	45.5	54.5	66
18621	.0	.0	4.9	11.5	23.0	8.2	1.6	3.3	.0	.0	52.5	47.5	61
TOT	2	0	8	22	48	11	11	2	1	1	106	125	231

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00803	1.4	1.4	.0	6.9	26.4	63.9	72	60800	2.2	4.3	17.4	30.4	52.2	46
90360	.0	.0	2.8	4.6	22.2	70.4	108	90360	.0	7.3	14.5	25.5	60.0	55
12615	1.2	.0	1.2	2.4	26.5	58.7	83	12615	1,5	1.5	10.6	34,8	54.5	66
18621	1.2	2.4	2.4	5.9	23,5	64.7	85	18821	.0	4.9	18.0	36,1	45.9	61
TOT	3	.9	1.7	17	24.4	67.2	348	TOT	2	10	34	73 32.0	121 53.1	228

TABLE 1

TABLE 13														TABL	E 14				
RCE	NT FRE	EQUENC	OF RE	LATIVE	I MUH) 17 y B	TEMP	TOTAL	PeT		PERC	ENT FR	EQUENC	Y DF W	IND DI	RECTIO	N BY T	EMP	
29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	OBS	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.4	1.2	.4	.0	5	2.0	.0	.0	.0	.0	.4	.4	1.2	.0	.0	.0
.0	.0	.0	.0	1.2	5.5	3.6	2.0	31	12.3	3.0	.0	.0	. 2	2.3	1.4	2.0	3.5	.0	.0
.0	.0	.0	.0	4.0	14.2	23.7	15.0	144	56.9	8.3	4.7	2.8	1.2	13.7	6.4	10.4	7.4	.0	2.0
.0	.0	.0	.0	5.5	5.5	11.5	4.7			4.4	2.0	.9	1.3	9.7	2.7	3.1	1.3	.0	2.0
.0		.0	.0	.0	.4	. 8	.0	3	1.2	.3	.1	.0	.0	.0	. 8	.0	.0	.0	.0
.0			.0	.0				1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
0	0	0	0	28	68	101	56	253											
.0	.0	.0	.0					-	75 Y 20 20 10 10 10 10 10 10 10 10 10 10 10 10 10	16.0	6.8	3.7	2.7	26.1	11.7	16.6	12.2	.0	4.3
	.00.000	29 30-39 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	29 30-39 40-49 .0	RCENT FREQUENCY UF RI 29 30-39 40-49 50-59 .0 .0 .0 .0 .0 .0 .0 .0	RCENT FREQUENCY UF RELATIVE 29 30-39 40-49 50-59 60-69 .0 .0 .0 .0 .1.2 .0 .0 .0 .0 .4.0 .0 .0 .0 .5.5 .0 .0 .0 .0 .5.5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	RCENT FREQUENCY UF RELATIVE HUM3: 29 30-39 40-49 50-59 60-69 70-79 .0 .0 .0 .0 .12 5.5 .0 .0 .0 .0 .0 14.2 .0 .0 .0 .0 5.5 5.5 .0 .0 .0 .0 5.5 5.5	RCENT FREQUENCY OF RELATIVE HUMIDITY BY 29 30-39 40-49 50-59 60-69 70-79 80-89 .0 .0 .0 .0 .1.2 5.5 3.6 .0 .0 .0 .0 1.2 23.7 .0 .0 .0 .0 5.5 5.5 11.5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	RCENT FREQUENCY UF RELATIVE HUMJDITY BY TEMB 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 .0 .0 .0 .0 .1.4 1.2 .4 .0 .0 .0 .0 .0 .1.2 5.5 3.6 2.0 .0 .0 .0 .0 .0 4.0 14.2 23.7 15.0 .0 .0 .0 .0 5.5 5.5 11.5 4.7 .0 .0 .0 .0 .0 .0 .0 .4 8 .0 .0 .0 .0 .0 .0 .0 .0 .4 8 .0 .0 .0 .0 .0 .8 8 .0 .0 .0 .0 .0 .8 8 .0 .0 .0 .0 .0 .8 8 .0 .0 .0 .0 .0 .0 .0 .0 .4	RCENT FREQUENCY OF RELATIVE HUNDOITY BY TEMP 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 TOTAL 0.0 .0 .0 .0 1.2 5.5 3.6 2.0 31 .0 .0 .0 .0 14.2 23.7 15.0 144 .0 .0 .0 .0 .0 .0 4.0 14.2 23.7 15.0 144 .0 .0 .0 .0 .0 .0 5.5 5.3 11.5 4.7 69 .0 .0 .0 .0 .0 .0 .0 .4 8 .0 3 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	RCENT FREQUENCY UF RELATIVE HUMIDITY BY TEMP 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DB5 FREQ .0 .0 .0 .0 .0 .4 1.2 .4 .0 5 2.0 .0 .0 .0 .0 1.2 5.5 3.6 2.0 31 12.3 .0 .0 .0 .0 .4 14.2 23.7 15.0 144 56.9 .0 .0 .0 .0 .5.5 5.5 11.5 4.7 69 27.3 .0 .0 .0 .0 .0 .0 .4 .8 .0 3 1.2 .0 .0 .0 .0 .0 .0 .4 .8 .0 3 1.2 .0 .0 .0 .0 .0 .0 .4 .8 .0 3 1.2 .0 .0 .0 .0 .0 .8 .8 .0 3 1.2 .0 .0 .0 .0 .8 .8 .10 5 525 100.0	RCENT FREQUENCY UF RELATIVE HUMJDITY BY TEMP 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 TOTAL PCT 00 0 0 0 0 0 1.2 1.2 .4 0 5 2.0 0 0 0 0 0 1.2 5.5 3.6 2.0 31 12.3 3.0 0 0 0 0 0 1.4 1.2 23.7 15.0 144 56.9 8.3 0 0 0 0 5.5 5.5 11.5 4.7 69 27.3 4.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RCENT FREQUENCY UF RELATIVE HUMJDJTY BY TEMP 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 TOTAL PCT 08 5 FREQ N NE 0 0 0 0 0 1.2 5.5 3.6 2.0 31 12.3 3.0 0 0 0 0 0 1.2 5.5 3.6 2.0 31 12.3 3.0 0 0 0 0 0 0 1.2 2.5 7 15.0 144 56.9 8.3 4.7 0 0 0 0 0 0 0 4.0 14.2 23.7 15.0 144 56.9 8.3 4.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RCENT FREQUENCY UF RELATIVE HUMJDITY BY TEMP 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 TOTAL PCT 085 FREQ N NE E .0 .0 .0 .0 .0 .1.2 5.5 3.6 2.0 31 12.3 3.0 .0 .0 .0 .0 .0 .0 4.0 14.2 23.7 15.0 144 56.9 8.3 4.7 2.8 .0 .0 .0 .0 .0 .5.5 5.5 11.5 4.7 69 27.3 4.4 2.0 .9 .0 .0 .0 .0 .0 .0 .4 .8 .0 3 1.2 .2 .1 .0 .0 .0 .0 .0 .0 .0 .4 .8 .0 3 1.2 .2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	RCENT FREQUENCY UF RELATIVE HUNIDITY BY TEMP 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ .0 .0 .0 .0 .0 .1.2 5.5 3.6 2.0 31 12.3 3.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	RCENT FREQUENCY UF RELATIVE MUMIDITY BY TEMP 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 0B5 FREQ .0 .0 .0 .0 .0 .1.2 5.5 3.6 2.0 31 12.3 3.0 .0 .0 .0 .0 .2 2.3 .0 .0 .0 .0 .0 .2 2.3 .0 .0 .0 .0 .0 .2 2.3 .0 .0 .0 .0 .0 .2 2.3 .0 .0 .0 .0 .0 .0 .2 2.3 .0 .0 .0 .0 .0 .0 .0 .2 2.3 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	RCENT FREQUENCY UF RELATIVE MUMIDITY BY TEMB 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DB5 FREQ .0 .0 .0 .0 .0 .4 1.2 .4 .0 5 2.0 .0 .0 .0 .0 .0 .4 .4 .0 .0 .0 .0 .0 .2 2.3 1.4 .0 .0 .0 .0 .0 .0 .4 .4 .0 .0 .0 .0 .0 .2 2.3 1.4 .0 .0 .0 .0 .0 .0 .0 .2 2.3 1.4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	RCENT FREQUENCY UF RELATIVE HUMIDITY BY TEMB 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 OBS FREQ 10 .0 .0 .0 .0 .4 1.2 .4 .0 5 2.0 .0 .0 .0 .0 .0 .4 1.4 2.0 .0 .0 .0 .0 .0 .2 2.3 1.4 2.0 .0 .0 .0 .0 .0 .0 .2 2.3 1.4 2.0 .0 .0 .0 .0 .0 .0 .2 2.3 1.4 2.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	RCENT FREQUENCY UF RELATIVE MUMIDITY BY TEMB 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 0B5 FREQ N NE E SE S SW M NW 10 .0 .0 .0 .1.2 5.5 3.6 2.0 31 12.3 3.0 .0 .0 .0 .2 2.3 1.4 2.0 3.5 .0 .0 .0 .0 .0 .2 2.3 1.4 2.0 3.5 .0 .0 .0 .0 .0 .5 5.5 11.5 4.7 69 27.3 4.4 2.0 .9 1.3 9.7 2.7 3.1 1.3 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	RCENT FREQUENCY UF RELATIVE HUMIDITY BY TEMP 29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ N NE E SE S SN N NN VAR .0 .0 .0 .0 .1.2 .5.5 3.6 2.0 31 12.3 3.0 .0 .0 .0 .2 2.3 1.4 2.0 3.5 .0 .0 .0 .0 .0 .0 .5.5 5.5 11.5 4.7 69 27.3 4.4 2.0 .9 1.3 9.7 2.7 3.1 1.3 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR MAX 99% 95% 5U% 5% 1%
66 63 61 55 50 48
65 62 60 55 49 46
65 63 61 55 50 46
66 64 62 57 52 50
68 63 61 55 50 48 MIN MEAN TOTAL OBS
47 55.5 342
45 54.7 681
43 55.2 329
47 57.1 599
43 55.7 1951

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	MIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	.0	.0	7.5	26.4	37.7	28.3	84	53
90300	.0	.0	8.5	16.9	52.1	22.5	84	71
12815	.0	.0	14.1	23.9	36.6	25.4	82	71
18621	.0	.0	14.1	39.1	34.4	12.5	80	64
TnT	0	0	29	8.8	105	57	82	259

APRIL

PERIOD: (PRIMARY) 1907-1975 (DVER-ALL) 1871-1975

TABLE 17

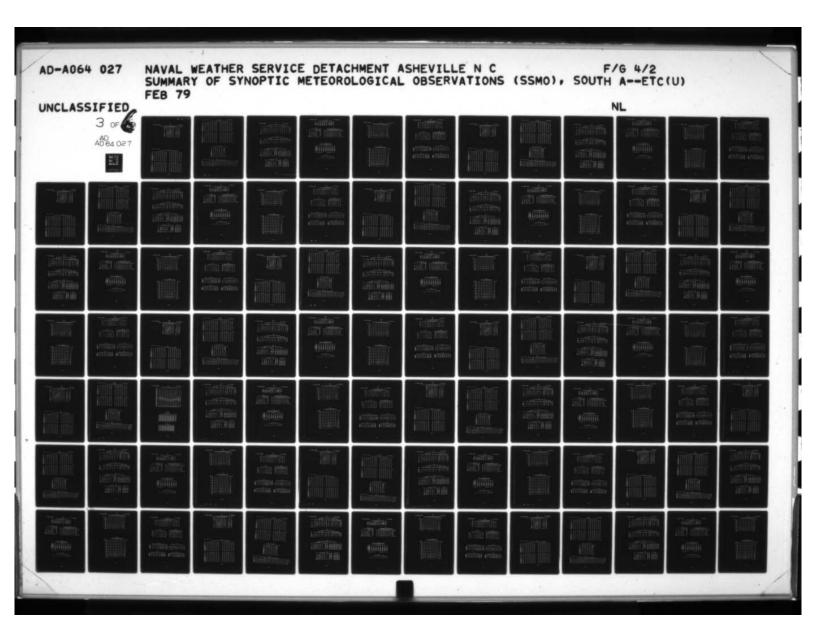
AREA 0027 VALDIVIA 40.35 74.5W

PCT FRFQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	45	49	53	57	61	65	TOT	W	WD
THP DIF	48	52	56	60	64	68		FOG	FOG
9/10	.0	.0	.0	.0	.4	. 8	3	.0	1.2
7/8	.0	.0	.0	.0	.0	.4	1	.4	.0
5	.0	.0	.0	. 8	.0	.4	3	.0	1.2
4	.0	.4	.0	. 8	. 4	.0	4	.0	1.6
3	.0	.0	.4	2.7	1.2	.0	11	.0	4.3
3 2 1	.0	. 4	2.0	3.9	. 8	.0	18	.0	7.1
1	.0	. 8	3.5	5.5	. 8	.4	28	.0	11.0
ō	.0	.0	6.7	8.2	2.0	.0	43	1.2	15.7
-1	.0	1.2	8.6	4.3	. 8	.0	38	.0	14.9
-2	.4	1.6	7.5	4.3	. 8	.0	37	.4	14.1
-3	.0	3.9	5.1	1.6	.0	.0	27	.0	10.6
-4	.0	3.9	1.6	. 8	.0	.0	16	.0	6.3
-5	.0	2.7	1.6	.4	.0	.0	12	.0	4.7
-6	.0	1.2	1.6	.0	.0	.0	7	.0	2.7
-7/-8	.0	. 8	.4	. 8	.0	. 0	5	.0	2.0
-9/-10	.0	.0	.4	.4	.0	.0	5 2	.0	. 8
TOTAL	1		100		18			5	250
		43		88		5	255		
PCT	.4	16.9	39.2	34.5	7.1	2.0	100.0	2.0	98.0

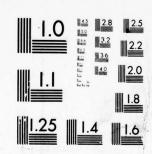
PERIOD: (OVER-ALL) 1963-1975

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	CTION V	VERSUS S	SEA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0		.0	.2	.0	.0	.0	.0	. 2
1-2	.0	.0	.0	.0	.0	.0	.0		.0	2.1	.0	.0	.0	.0	2.1
3-4	.0	2.1	.5	.0	.0	.0	2.7		.0	1.4	.2	.0	000000000000000000000000000000000000000	.0	1.6
5-6	.0	2.9	2.3	1.3	.0		6.4		.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	1.1	.0	.0		1.1		. 2	.0	.0	.7	.0	.0	.9
8-9	.0	.0	2.0	1.3	.0		3,2		.0	.0	.2	1.4	.0	.0	1.6
10-11	.0	.0	.7	.0	.0	.0	.7		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0 .0 .0 7.7
TOT PCT	.0	7.0	6.6	2.5	.0	.0	16.1		. 2	3.8	1.6	2.1	.0	.0	7.7
												22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.2	.0	.0	.0	.0	. 2
1-2	.0	.5	2.0	.0	.0	.0	2.3		.0	2.1	.4	.0	.0	.0	2.5
3-4	.0	.0	1.4	.0	.0	.0	1.4		.0	.0	.2	.0	.0	.0	. 2
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7	.5	.0	.0	.0	.0	.0	.5		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
12	.7	.0	.0	.0	.0		• 7		.0		.0	.0	• 0	.0	.0
13-16	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
23-25	.0	.0	.0	.0	.0		.0		.0	.0		.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0		.0			:0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0		000000		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	,0	.0	.0		.0	.0	.0	:0	.0	.0	.0
71-86	.0	.0	.0	.0	:0	.0	.0		.0	:0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0			.0		.0	.0	.0		.0	.0	.0
TOT PCT	.0	.0	3.4	.0	.0	.0	5.2		.0	2.3	.5	.0	000000000000000000000000000000000000000	.0	000000000000000000000000000000000000000
TOT PET	1.3	.,	3,4	.0	.0	.0	9,2		.0		.,	.0		.0	4.7



3 OF (

AD A064027



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-4

APRIL

PERIOD: (PRIMARY) 1907-1975 (DVER-ALL) 1871-1975

TABLE 17

AREA 0027 VALDIVIA 40.35 74.5W

PCT FRFQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)

SAIR-SEA **5 **49 **53 **57 **61 **65 **TOT * HO

TMP DIF **48 **52 **56 **60 **64 **68 **FDG **FDG

9/10 ***0 ***0 **0 **0 **4 **8 **3 **0 **122

7/8 **0 **0 **0 **0 **0 **4 **1 **0 **0

PERIOD: (DVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) 34-47 HGT 41 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 TP CT PCT 1-3 PCT 2.0 2.7 6.4 1.1 3.2 .7 .0 .0 .0 .0 .0 1-3 11-21 .0 .2 1.3 .0 .0 .0 .0 .0 .0 .0 E 22-93 11-21 HGT 41 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 41-48 49-60 61-70 71-86 87+ 70 PCT 4-10 1-3 34-47 1-3

PERIODI	OVER	R-ALL)	1963-1	975					API	RIL				AREA	0027	VALDIVI	4
								TABLE	18	CONT					40.		.5W
				PC	T FREQ	DF WIN	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT			
				5									SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10			34-47	484	PCT	
<1	.0	3.4	.0	.0	.0	.0	3.4			. 2	.0			.0	.0	.2	
1-2	.0	.7		.0	.0	.0	3,2			.0	3.0			.0	.0	3.0	
3-4	.0	1.8	2.5	.0	.0	.0	5.9			.0	2.1			.0	.0	2.7	
7	.0	1.0		2.1	.0		3.7							.0	.0	1.3	
8-9	.0	.0	3.6	.0	:0	.0	3.6			.0	.7			.0	.0	1.4	
10-11	.0	.0	.7	.0	.0	.0	.7			•0	.0			• •	.0	.7	
	.0	.7	.7	.0	.0		:7			•0	.0			.0	.0	.0	
12	.0		.0	•0	.0	.0	: 7			.0	:0			.0	.0	.0	
17-19	.0	.0	.7	.0	.0	.0	• '			.0	.0			.00	.0	.0	
20-22	.0	:0	.0	.0	.0	.0	.0			.0	.0				.0	.0	
23-25	.0		.0	•0		.0	.0				.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0				.0	.0	.0	
33-40	.0		.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
	.0	.0	.0	.0	.0	.0	.0			.0				.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
87+	.0	.0	0	.0	.0	.0				.0	7.0			.0	.0	.0	
TOT PCT	.0	12.5	10.7	2.1	.0	.0	25.4			. 2	7.0	1.4	.7	.0	.0	9.3	
				W									NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10			34-47	48+	PCT	PCT
<1	. 5	2.1	.0	.0	.0	.0	2.7			.0	. 7			.0	.0	.7	
1-2	.0	2.3	.7	.0	.0	.0	3.0			.0	1.1			.0	.0	1.8	
3-4	.0	.0	3.9	.0	.0	.0	3.9			.0	. 7			.0	.0	2.1	
5-6	.0	.0	1.3	.7	.0	.0	2.0			.7	.0			.0	.0	1.1	
7	.0	.0	1.4	1.3	.0	.0	2.7			.0	.7			,0	.0	1.3	
8-9	.0	.0	.5	1.3	.0	.0	1.8			.0	.0	2	.4	:0	.0	.5	
10-11	.0	.0	.0	1.4	.0	.0	1,4			.0	.7			.0	.0	1.4	
12	.0	.0	.0	•0	.0	.0	.0			.0	.0			.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			:0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0				.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	17.5			.7	3.9	2.9	2.1	:0	.0	9.6	93.6
TOT PCT	.5	4.5	7.9	4.6	.0	.0											

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11=21	22-33	34-47	48+	PCT	TOT
<1	6.4	8,6	.0	,0	.0	.0	15.0	003
1-2	.0	17.1	4.3	.0	.0	.0	21.4	
3-4	.0	7.1	10.7	.0	.0	.0	17.9	
5-6	1.4	5.7	7.1	4.3	.0	.0	18.6	
7	. 7	1.4	6.4	2.9	.0	.0	11.4	
3-9	.0	.0	4.3	4.3	.0	.0	8.6	
10-11	.0	. 7	1.4	2.1	.0	.0	4.3	
12	.7	. 7	.0	.0	.0	.0	1.4	
13-16	.0	. 0	.7	.7	.0	.0	1.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0		.0	.0	,0	
87+	.0	.0	.0	.0	.0	.0	.0	
							5.00	140
TOT DET	0.3	41 4	25 0	14.3	. 0	. 0	100 0	

PERIOD: (DVER-ALL)) 195	2-197	5				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HEI	GHT (F	r) vs	WAVE P	ERIOD	SECON	(80						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10=11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	HEAN
< 6	2.0	5.0	11.9	6.9	5.0	4.0	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	5
6-7	.0	1.0	1.5	10.4	4.0	3.0	1.0	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	6
8-9	.0	.0	2.5	.5	3.0	1.0	5.4	.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	9
10-11	.0	.0	.0	3.0	1.0	2.5	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	8
12-13	.0	.0	.5	1.0	.5	.0	.5	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
>13	.0	.0	.0	.0	.5	. 5	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
INDET	2.5	.0	1.0	1.0	2.0	3.0	2.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	6
TOTAL	9	12	35	46	32	28	23	11	2	4	0	0	0	0	0	0	0	0	0	202	6
PCT	4.5	5.9	17.3	22.8	15.8	13.9	11.4	5.4	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			p	RECIPT	TATIO	N TYPE					DTHER	HEATHER	PHEND	MENA	
WNO DIR	RAIN	RAIN	DRZL	FRZG	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PEPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUS BLWG SNO	
N	20.7	2.1	5.4	.0	.0	.0	.0	28.2	15.8	.0	5.0	.0	1.7	.0	49.4
NE	9.7	3.5	4.4	.0	.0	.0	.0	17.7	. 9	.0	.0	.0	-0	.0	81.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	6.7	3.4	.0	.0	.0	.0	.0	10.1	.0	.0	.0	.0	.0	.0	89.9
S	.0	2.9	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	97.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	14.8	.0	.0	.0	.0	.0	85.2
W	18.5	3.4	3.4	.0	.0	.0	.0	25.2	18.5	.0	.0	.0	.0	.0	56.3
NW	13.4	8.7	4.7	.0	.0	.0	.0	26.8	4.7	.0	6.3	.0	.0	.0	62.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	÷0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	, 0	.0	,0	33.3	.0	. 0	.0	66.7
TOT PCT	11.0	3.3	2.8	.0	.0	.0	.0	17.1	7.7	.0	2.4	•0	.4	.0	72.4

TABLE 2

DERCENT	FREDUENCY	DE	WEATHER	DECLIBRENCE	RV	HOU

					150					-					
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR	FDG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	12.7 9.4 12.9 10.0	5.5 1.6 4.9 1.4	1.8 3.1 3.2 2.9	.0	.0	.0	.0	20.0 14.1 21.0 14.3	3.5 9.4 8.1 7.1	.0	3.6 4.7 .0	.0	1.6		70.9 70.3 71.0 77.1
TOT PCT	11.2	3.2	2.8	» O	.0	•0	.0	17.1	7.6	,0	2.4	,0	.4	.0	72.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	D SPE	ED (KN	OTS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	1.2	6.6	6.9	3.7	1.0	.2		19.8	15.7	18,2		21.4	19.9	21.4		20.2	16.9
NE	.6	3.1	2.2	.8	.3	.1		7.2	13.3	6.8	20.0	6.6	7.4	8.0	14.3	7.1	6.7
E	. 5	2.3	.9	.1	.0	.0		3.7	8.3	3.1	.0	4.5	6.1	3.9	.0	3.2	1.9
E SE	1.1	4.5	3.0	.5		.0		9.1	10.1	10.0	.0	9,3	8,6	11.6	17.9	8.8	5.6
S	1.3	6.9	5.0	1.9	.3	.0		15.4	12.3	15.8	20.0	13.6	14.0	14.9	10.7	16.5	17.2
SW	1.1	4.2	4.0		.3	.0		11.1	13.2	9,8	.0	8.8		13.2	14.3	11.4	12.5
W	.8	5.1	5.1	1.4	.4	. 3		13.1	14.3	15,3	.0	14.2		8.7	14.3	13.8	15.0
NW	.7	6.3	6,6		. 8	. 2		18.5	15.7	19.1	.0	19.6		16.2	14.3	17.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1		-					2.1	.0	1.9	.0	1.9		2.1	.0	1.3	
TOT OBS	199	830	719	292	70	17	2127		13.4	366	5	363	301	340	7	449	295
TOT PCT	9.4	39.0	33.8		3.3	. 8		100.0			100.0				100.0		100.0

	-	

					1 40							
WND DIR	0-6	WIND 7-16	SPEED 17-27		41+	TOTAL	PCT	MEAN SPD	00	HDU 06 09	R (GMT 12 15	18 21
N NE	3.7	7.7	5,8	2.1	.5		19.8	15.7	18.7	20.7	21.3	
	1.7	3.8	, В	. 8	.1		7.2	13.3	7.0		8.1	6.9
SE	1.8	1.6	.3		.0		3.7	8.3	3.0	5.3	3.8	2.7
2 E	3.4	3.9	1.7	.1	.0		9.1	10.1	9.9	9.0	11.7	7.5
5	4.0	7.1	3,5	.7	. 1		15.4	12.3	15.8	13.7	14.8	16.8
SW	2.5	4.9	3,1	.6	.0		11.1	13.2	9.6	10.1	13.3	11.8
W	3.0	5.6	3,3	.8	.0		13.1	14.3	15.1	13.0	8.8	14.3
NW	2.8	7.8	5,8	1.6	.5		18.5	15.7	18.9	18.9	16.1	19.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	1.9	2.4	2.0	2.0
TOT DBS	531	899	517	146	34	2127		13.4	371	664	347	745
-0- 007	25 0	42 .	44 3				100 0		100.0	100 0	100 0	

AREA 0027 VALDIVIA 40.45 74.5W

PERCENTAGE	FREQUENCY	OF	WIND	SPEED	BY	HOUR	(GMT)

								-		
HOUR	CALM	1-3	4-10	MIND		KNOTS)	48+	MEAN	PCT	TOTAL
-		-		-				-		
60300	1.9	7.3	43.1	31.0	13.7	2.7	.3	12.9	100.0	371
90300	2.4	8.3	39.9	33.0	11.7	3.5	1.2		100.0	664
12415	2.0	6.9	39.5	35.7	11.5	3.5	.9	13.4	100.0	347
18621	2.0	6.4	36.0	35.0	16.5	3.4	.7	14.0	100.0	745
TOT	45	154	830	719	292	70	17	13.4		2127
PCT	2.1	7.2	39.0	33.8	13.7	3.3	. 8		100.0	100000

	PCT FRE			CLUUD A		(EIGHTHS)							CEILIN NH <5/					
WND DIR	0=2	3-4	5-7	8 & n85CD	TOTAL	CLOUD COVER	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N	.9	1.3	5.4	17.1		7.0	1.4	.0	1.4	7.2	5.9	2,5	.8	.0	.0	1.4	4.1	
NE	1.2	. 1	3.9			6.4	.1	.0	.7	1.6	.7	4.8	.0	.0	.0	. 3	3.5	
E	.4	.0	.9	.4		5.6	.0	.0	.0	.0	. 5	.0	.0	.0	.0	. 4	.8	
SE	2.7	2.2	1.4	3.1		4.6	.0	.0	.5	2.1	. 5	. 8	.0	.0	.0	. 5	5.1	
S	6.7	2.0	4.7	3.0		4.0	.0	.0	.0	.0	2.1	1.8	1.0	.0	.0	.0	11.4	
SW	.1	1.2	3.0	2.7		6.4	.0	.0	.0	.5	2.2	1.0	.0	.0	.0	.0	3.3	
W	.5	1.4	3.9	6.5		6.6	2.0	.0	. 9	2.1	2.0	2.6	.0	.0	.0	.0	2.9	
NW	2.1	1.2	2.9	9.3		6.4	.1	.0	1.7	4.8	1.8	1.0	1.3	.0	.0	.0	4.6	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.5	.0		3,5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
TOT OBS	29	18	51	93	191	6.0	7	0	10	35	30	28	6	0	0	5	70	191
TOT PCT	15.2	9.4	26.7	48.7	100.0		3,7	.0	5,2	18.3	15.7	14.7	3.1	.0	•0	2.6	36.6	100.0

TABLE 7
OF SIMULTANEOUS OCCURRENCE

					VSBY (NM)			
CEIL	ING	- DR	• DR	• DR	- OR	· DR	- OR	 DR 	= OR
(FEE		>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
nR >6	500	2.1	2.6	2.6	2.6	2.6	2.6	2.6	2.6
TR >5	000	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1
DR >3	500	4.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
DR >2	000	15.5	18.1	19.2	20.2	20.2	20.2	20.2	20.2
OR >1	000	27.5	32.6	34.2	35.8	35.8	35.8	35.8	35.8
DR >6	00	33.7	44.6	48.7	50.8	52.3	53.9	53.9	53.9
OR >3	100	35.2	48.2	54.4	56.5	58.0	59.6	59.6	59.6
DR >1	50	35.2	48.2	54.4	56.5	58.0	59.6	59.6	59.6
OR >		35.2	48.2	56.5	59.1	61.1	62.7	63.2	63.2
	TAL	68	93	109	114	118	121	122	122

TOTAL NUMBER OF OBSI 193 PCT FREQ NH <5/81 36.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
7.1	8.6	6.4	6.1	7.6	6.6	6.6	8.1	40-4	2.5	198

	ı	

PERIOD:	(PRIMARY)	
	(OVER-ALL)	1873-1977

AREA 0027 VALDIVIA 40.48 74.5W

		,	ERCENT	PREC	DF WIN	D DIRE	CTION TH VAR	VS DCC	URRENCE ALUES	E DR N	IBILI	CURRENC TY	E OF
VSBY		N	NE	•	ŞĒ	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
(1/2	NO PCP	. 8	.0	.0	.0	.0	.0	.0	. 8	.0	.0	1.6	
	TOT %	.8	.0	.0	.0	.0	.0	.0	.8	.0	.0		
	PCP	1.1	.0	.0	.0	.0	.0	.3	.2	.0	.0	1.6	
1/241	NO PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT &	1.5	.0	.0	.0	.0	.0	.3	.2	.0	.0		
	PCP	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	
<2	NO PCP	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	TOT &	1.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
	PCP	1.0	.9	.0	.0	.0	.0	1.5	1.0	.0	.0	4.5	
<5	NO PCP	1.5	.1	.4	. 4	.0	.0	.4	.0	.0	.0	2.9	
	TOT &	2.6	1.0	.4	::	.0	.0	1.9	1.0	.0	.0	7.3	
	PCP	3.5	1.0	.0	.0	.4	.0	.4	1.6	.0	.0	6.9	
<10	NO PCP	3.1	1.4	.0	. 8	.4	. 8	. 8	2.4	.0	.0	9.8	
	TOT \$	6.5	2.4	.0	. 8	. 8	. 8	1.2	4.1	.0	.0	16.7	
	PCP	.6	.0	.0	1.2	.0	.0	.8	.6	.0	.0	3.3	
0+	NO PCP	10.6	8.0	5.2	9.7	13.2	5.4	7.9	6.2	.0	. 8	66.9	
	TOT %	11.2	8.0	5,2	10.9	13.2	5.4	8.7	6.8	.0	.8	70.2	
	TOT 085												245
	TOT PCT	24.6	11.5	5.6	12.1	14.0	6.2	12.1	13.0	.0	.8	100.0	

TABLE 9

					WITH	ARYING	VALUE	S OF	ISIBIL	ITY			
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	рСТ	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	.3	.0	.0	.0	.0	.0	.0	.3	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	.6	•0	.0	.0	.0	.0	.0	.6	.0	.0	1.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.0	.0	.0	.0	.0	.2	.1	.0		.6	
	22+	.9	.0	.0	.0	.0	.0	.0	.1	.0		.9	
	TOT \$	1.2	•0	.0	. •0	.0	.0	.2	.2	.0	.0	1.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.6	.0	.0	.0	.0	.0	.0	.0	.0		.6	
	11-21	.9	.0	.0	.0	.0	.2	.2	.0	.0		1.2	
	224	.4	.1	.0	.0	.0	.0	.0	.2	.0		.6	
	TOT \$	1.9	•1	.0	.0	.0	.2	.2	.2	.0	.0	2.5	
	0-3	.3	.0	.0	.0	.0	.0	.3	.0	.0	.0		
2<5	4-10	.3	.0	.2	.2	.0	.0	.0	.0	.0		.6	
	11-21		•1	.0	.0	.0	.0	.3	.4	.0		1.5	
	22+	.5	• 7	.2	.2	.0	.0	.9	.4	.0		2.8	
	TOT %	1.9	.8	.3	.3	.0	.0	1.5	.8	.0	.0	5.6	
	0-3	.3	. 8	.2	.3	.0	.0	.3	.0	.0	.0		
5<10		.6	.3	.0	.3	.5	. 8	.0	1.5	.0		4.0	
	11-21	1.2	• 1	.0	.0	.6	.0	.9	1.2	.0		4.0	
	22+	3.6	1.2	.0	.0	.0	.3	1.2	. 8	.0		5.9	
	TOT #	5.7	2.3	.2	.6	1.1	1.1	1.2	3.6	.0	.0	15.8	
	0-3	.9	.5	.2	1.4	1.3	.5	.9	.0	.0	1.2	6.8	
10+	4-10	3.0	2.0	3.3	3.6	7.4	2.7	3.4	2.6	.0		26.9	
	11-21	5.3	3.8	2.0	3.6	5.0	2.7	3.4	3.9	.0		29.7	
	224	2.0	1.0	.0	1.3	3.4	.9	.9	.5	.0		9.9	
	TOT \$	11.1	7.3	5.5	10.0	17.1	6.7	7.4	7.0	.0	1.2	73.4	
	TOT 085												323
	TOT PET	22.5	10.4	6.0	10.9	18.2	8.0	10.4	12.3	.0	1.2	100.0	

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1873-1977

TABLE 10

AREA 0027 VALDIVIA 40.45 74.5W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
00603	7.7	.0	2.6	23.1	17.9	7.7	2.6	.0	.0	2,6	64.1	35.9	39
06609	4.6	.0	4.8	21.4	14.3	4.8	7.1	.0	.0	2,4	59.5	40,5	42
12615	1.8	.0	7.1	19.6	19.6	23.2	1.8	.0	.0	.0	73.2	26.8	56
18621	1.8	.0	7.0	10.5	10.5	17.5	1.8	1.8	.0	5,3	56.1	43,9	57
TOT	. 7	0	11	35	30	28	3 1	1	0	2.6	123	71	194

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.0	2.9	1.5	10.3	14.7	70.6	68	00803	7.9	13.2	36.8	26,3	36.8	38
06609	3.1	1.0	2.1	4.2	19.8	69.8	96	90360	4,8	16.7	31.0	28,6	40.5	42
12615	.0	.0	4.1	1.4	16.4	78.1	73	12815	1.8	8.9	30.4	42.9	26.8	56
18621	1.1	2.2	2.2	7.7	11.0	75.8	91	18821	1.8	12.3	26.3	29.8	43.9	57
POT	1.2	1.5	2.4	19	15,5	73.5	328	TOT	3,6	12.4	30.6	63 32,6	71 36.8	193

TABLE 13

				TAB	LE 14					
	PERCEN	T FR	EQUENCY	OF	MIND	DIRE	TIO	N BY T	EMP	
N	NE	E	SE	S	5	W	W	NW	VAR	CALM
15.7	.6	.4	.1	6.3	4:	0	.0	1	.0	.0
7.9	4.0	3.2	7.2	7.8			5.0	10.7	.0	.5
.5	.0	4.4	3.9	.0		5	.0	.0	.0	.0

25.9 8.8 7.9 13.4 14.1 5.7 10.5 12.7 .0 1.0

PERCENT FREQUENCY OF RELATIVE MUMIDITY BY TEMP

TEMP F 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 0B5 FREQ

60/64 .0 .0 .0 .0 .5 .5 .0 .5 2.0 6 2.9 55/59 .0 .0 .5 .5 3.4 11.2 17.1 15.6 99 48.3 50/54 .0 .0 .0 .10 9.8 9.3 13.7 5.9 81 39.5 45/49 .0 .0 .0 .0 1.0 9.8 9.3 13.7 5.9 81 39.5 45/49 .0 .0 .0 .0 1.0 9.8 9.3 13.7 5.9 81 39.3 1071AL 0 0 1 5 26 42 76 51 205 100.0 PCT .0 .0 .5 2.4 13.7, 20.5 38.0 24.9

TABLE 15

	MEANS.	EXTREM	S AND	DERCEN	TTIES	OF TEM		FI	BY HOUR
				FERCE		G	,,,,,		o. nuon
HOUR (GMT)	MAX	99\$	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	66	61	58	54	47	46	45	53,5	370
06609	64	61	59	53	47	45	44	52.9	664
12615	61	60	58	53	46	43	41	53.0	341
18621	65	62	59	55	48	46	43	54.3	691
TOT	66	61	59	54	47	45	41	53,5	2066

0 0

	PERU	ENI PRE	AOENC .	OF KEPA	. TAE U	MIUITI	שו אטטו	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60300	.0	2.0	16.3	20.4	34.7	26.5	82	49
06209	.0	5.7	11.3	13.2	35.8	34.0	84	53
12815	.0	2.0	12.2	24.5	38.8	22.4	82	49
18821	.0	1.7	13.8	24.1	41.4	19.0	82	58
TOT	0	6	28	43	79	53	82	209

MAY

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1873-1977

TABLE 17

AREA 0027 VALDIVIA 40,45 74.5W

	F) AND THE OCCURRENCE OF FOG (WITHOUT TEMPERATURE DIFFERENCE (DEG F)	PRECIPITATION
--	--	---------------

AIR-SEA	45	49	53	57	61	65	TOT	W	WD
THP DIF	48		56	60	64	68	7.5	FOG	FOG
11/13	.0	.0	.0	.0	.0	.5	1	.0	.5
7/8	.0	.0	.5	.0	.0	.0	ī	.0	. 5
5	.0			1.0	1.0	.0	6	.0	2.9
4	.0	.0	1.0	4.4	. 5	.0	12	.5	5.4
3	.0		1.5	5.4	.0	.0	14	.0	6.9
2	.0		2.9	5.9	. 5	.0	20	.5	9.3
1	.0		4.9	3.9	.0	.0	18	.5	8.3
ō	.0	3.4	8.8	3.4	.0	.0	32	. 5	15.2
-1	.0		10.3	2.9	. 0	.0	35	.5	16.7
-2	.0	5.4	4.9	1.5	.0	.0	24	.5	11.3
0 -1 -2 -3	.0	2.0	4.9	.0	.0	.0	14	.0	6,9
-4	.5	3.4	.5	.0	.0	.0	9	.0	4.4
-4	1.0	3.9	1.0	.0	.0	.0	12	.0	5.9
-6	.0	1.0	.0	.0	.0	.0	2	.0	1.0
-7/-8	.0	.5	.0	.0	.0	.0	•	.0	. 5
-9/-10	1.0	. 5	.0	.0	.0	.0	3	.0	1.5
TOTAL			86	••	.4		,		198
TUTAL	5		00	58	•		201	6	140
PCT	2.5	24.5	42.2		2.0	.5	100.0	2.9	97.1

PERIOD: (DVER-ALL) 1963-1977

TABLE 18

PCT FREQ DF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT

				PC	T FREQ DF	MIND	SPEED	(KTS)	AND	DIREC	CTION V	ERSUS S	EA HEIG	HTS (FT)		
				N	The state of								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0			. 8	.8	. 8	.0	.0	.0	2.4
1-2	.6	. 0	• 0	.0	.0	.0	1.4			.2	.2	.0	.0		.0	.4
3-4	.0	3.0	4.9	2.4	.0	.0	10.4			.0	.0	2.0	. 8		.0	2.8
5-6	.0	.8	3.0	2.0	.0	.0	5.9			.0	.8	.0	.4	- 0	.0	1.2
7 8-9	.0	.0	3.5	1.2	. 8	.0	5,5			.0	.0	1.0	.2	.0	.0	1.2
	.0	.0	.6	3.5	.0	.0	4.1			.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.8	.0	.0	. 8
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0
13-16	.0	.0	.6	.0	.0	.0	. 6			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	•0	.0	.0	.0			.0	.0	.0	.0	•0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0	.0
33-40 41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	••	.0	.0
49-60	.0	.0	.0	•0	.0	.0	.0			.0	.0	.0	.0	•0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0	.0
71-86	.0	.0	.0	•0	.0	.0	.0			.0	.0	.0	.0	•0	.0	.0
87+	.0	• •	.0		.0	.0	.0			.0	.0	.0	.0	• 0	.0	.0
TOT PCT	.0	000000000000000000000000000000000000000	12.6	9.1	:8	.0	27.8			1.0	1.8	3.9	2.8	0000	.0	9.6
TOT POT	.0	***	12.6	7.1	••	.0	21,0			1.0	***	3.9	2.0		.0	9.0
													22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0			2.6	.2	.0	.0	.0	.0	2.8
1-2	.0	1.4	.0	.0	.0	.0	1,4			. 2	1.8	.0	.0	.0	.0	2.0
3-4	.0		.0	.0	.0	.0	.0			.0	1.0	1.6	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	,0			.0	.0	. 8	.0	. 8	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	1.0	000000000000000000000000000000000000000	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	1.0	. 8	.0	.0	1.8
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	. 8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-10	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000			.0	.0	3.5	.0	.0	.0	.0
TOT PCT	.0	1.4	.0	.0	.0	.0	1.4			2.8	3.0	3.5	2.6	.8	.0	12.8

PER100:	(nye	9-ALL	1963-1	0-7					MA	٧					0027		
PENAUUI	1012	N-MLL,	1703-1					TABLE	18 (CONT				AKEA	40.		
				PC	T FREQ	-	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT)			
				s									22-33				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21		34-47	48+	PCT	
<1	1.4	.6	.0	.0	.0	.0	5.0			.0	.0	.0		.0	.0	.0	
1-2	1.2	1.4	.0	.0	.0	.0	2.6			.2	. 8	.0		.0	.0	1.0	
5-6	.0	.6	. 8	.0	.0	.0	1.4			.0	. 8	.0		000000000000000000000000000000000000000	.0	1.6	
7	.0	1.6	2.2	.8	.0	.0	4.7			.0	.8			.0	.0	4.7	
8-9	.0	1.6	. 8	.6	.0	.0	3.0			.0		.0	.0	.0	.0	. 8	
10-11	.0	.0	.6	2.2	.0	.0	2.8			.0	.0		.2	.0	.0	.2	
12	.0	.0	8	.0	.0	.0	. 8			.0	.0		.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
23-25	.0	:0	.0	.0	.0	.0	.0			.0	:0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	:0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0		.0	.0			.0	:0		.0	••	.0	.0	
41-48	.0	.0	.0	.0	.0		.0			.0	.0		.0				
49-60	.0	.0	.0	.0	.0	.0	.0			.0	:0	.0	.0	• 0	.0	.0	
61-70	.0	.0	.0	.0	.0		• 0			.0	:0	:0	.0	.0	.0	.0	
71-86	.0	.0	.0		.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	:0	.0	.0	.0	.0	.0			.0	:0			••	.0	.0	
TOT PCT	2.6	5.9	5.3	3.7	.0	.0	17.5			.2	3.3	3,3	1.8	• • •	.0	8.5	
101 701	2,0		2.9	3.7	••	.0	11.00			••	••	3.3	1.0		.0	0.5	
				w									NW	_			TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10			34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0			.0	. 8	.8	.0	.0	.0	1.6	
1-2	.0	.0	.0	.0	.0	.0	.0			.0	. 8	.0	.0	.0	.0	. 8	
3-4	.0	.0	.0	.0	.0	.0				.0	.2			.0	.0	3.9	
5-6	.0	.0	3.7	1.4	.0	.0	5.1			.0	.0			.0	.0	2.0	
7	.0	.0	.6	.0	.0	.0	,6			.0	. 8	.6	1.0	.0	.0	2.4	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	. 8		. 8	.0	.0	1.8	
12	.0	.0	.6	.8	.0	.0	1.4			.0	.0			.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	:0		.0	.0	.0	.0	
17-19	.0		.0	.0		.0	,0			.0			.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.8	.0	.0	. 8	
23-25	.0		.0	.0	.0	.0	.0			.0	:0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	:0	.0	:0	.0	.0	.0	
41-48	.0	:0	.0	.0			.0			.0	:0		.0	.0	.0	.0	
49-60		.0	.0	.0	.0	.0	.0			.0	.0		.0	000000000000000000000000000000000000000	.0	.0	
61-70	.0	.0	.0	.0	:0	.0	.0			.0	:0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	:0	.0	.0			.0	:0	.0		.0	.0	.0	
87+	.0	.0	.0	.0	:0	.0	:0			.0	:0	.0	.0	.0	.0	.0	
TOT PCT	.0	.8	4.9	2.2	.0	.0	7.9			.0	3.5	7.3	2.8	.0	.0	13.6	99.2
	.0		4.4	2.2	.0	.0					•	7.5	2.0		.0	13.0	77.2

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.5	2.4	1.6	.0	.0	.0	10.5	
1-2	2.4	7.3	.0	.0	.0	.0	9.7	
3-4	.0	6,5	12.9	4.0	.0	.0	23.4	
5-6	.0	4.0	14.5	5.6		.0	25.0	
7	.0	3,2	6.5	4.0		.0	14.5	
8-9	.0	. 8	2.4	8.1	.0	.0	11.3	
10-11	.0	.0	1.6		.0	.0	4.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	. 8	.0		.0	. 8	
17-19	.0	.0	.0	. 8		.0	. 8	
20-22	.0	.0	.0	.0		.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0		.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0		.0	.0	
61-70	.0	.0	.0	.0		.0	.0	
71-66	.0	.0	.0	.0		.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
		••	••		•			124
TOT PCT	8.9	24.2	40.3	25.0	1.6	.0	100.0	

PERIO	D: (DV	ER-ALL)	195	2-197	7				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HE !	GHT (FI) VS	HAVE P	ERIDO	(SECON)\$)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.9	6.5	4.5	8.4	3.9	3.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	4
6-7 8-9	.0	.0	1.3	9.7	1.9	5.8	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	7
8-9	.0	.6	.0	3.9	5.2	2.6	3.2	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
10-11	.0	.6	1.3	1.3	2.6	5.8	1.9	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	23	8
12-13	.0	.0	. 6	1.3	.0	.6	1.3	1.3	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	11	10
>13	.0	.0	.0	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	3	
INDET	2.6	.0	. 6	.6	.6	.0	.0	.6	.0	.6	.0	.0	.0		.0	.0	.0	.0	.0		5
TOTAL	7	12	13	39	24	28	21		,	2	1	1	0	0	0	0	0	0	0	154	7
PCT	4.5	7.8	8.4	75.3	15.6	18.2	13.6	2.6	1.3	1.3	.6	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

0

AREA 0027 VALDIVIA 40.25 74.5W

Dencelly	Ent Olleway	0-	WEARHED	DCCURRENCE	 LIBAIR	OTOEC-TON

			P	RECIPI	TATIO	N TYPE					UTHER	WEATHER	PHEND	MENA	
WNU DIR	RAIN	RAIN	DRZL	FRZG	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
N	16.0	3.7	6.3	.0	.0	.0	.0	28.0	14.8	2.1	10.6	•0	.0	.0	44.4
NE	33.3	.0	.0	.0	.0	.0	.0	33.3	8.8	.0	.0	.0	.0	.0	57.9
E SE	35.3	.0	.0	.0	.0	.0	.0	35.3	.0	.0	.0	.0	.0	.0	64.7
SE	3.8	.0	.0	.0	.0	.0	.0	3.8	15.4	. 0	.0	.0	.0	.0	80.8
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	4.3	.0	8.5	.0	.0	.0	.0	12.8	8.5	.0	.0	.0	.0	.0	78.7
W	5.8	8.7	4.3	.0	.0	.0	.0	18.8	20.3	.0	4.3	.0	.0	.0	56.5
NW	18.2	10.0	4.5	.0	.0	.0	.0	32.7	11.8	.0	.9	.0	.0	.0	54.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	14.6	4.0	4.6	.0	.0	.0	.0	23.2	11.9	.7	4.0	•0	.0	.0	60.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPH PAST	THOR	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	2.9 23.7 22.5 7.7	5.7 .0 5.0 5.1	5.7 5.3 2.5 5.1	.0	.0	.0	.0	14.3 28.9 30.0 17.9	8.6 7.9 17.5 12.8	2.6	2.9 .0 2.5 10.3	•0	.0	.0	74.3 60.5 50.0 59.0
TOT PCT	14.5	3.9	4.6	.0	.0	.0	.0	23.0	11.8	.7	3.9	•0	.0	.0	60.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

				ED (KN										(GHT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	51
N	1.0	4.8	6,2	4,8	1.9	,5		19.2	19.0	21.0					87.5	19.7	15.7
NE	. 8	3.3	2.2	.7	.3			7.3	12.1	7.2	33.3	9.8	6,9	5.4	.0	6.5	7.8
E	.7	2.5	1.6	.1	.0	.0		4.8	9.0	3.6	.0	4.7	7.0	5,3	.0	4.9	3.1
SE	.3	3.4	2.9	.9	.0	. 1		7.6	12.8	5.5	.0	5.6	10.8	11.6	.0	5,9	6.4
S	.5	5.1	3.7	1.2	.5			10.9	13.1	11.9	.0	9.5	8.1	12.2	.0	9.7	15.8
SW	.5	4.0	4.8		.7			13.2	16.0	16.1	.0	12.4	11.7	10.5	.0		14.1
W	.7	3.9	4.2		1.2	. 1		13.0	17.2	13.3	33.3	10.9	15.0	13.5	.0	12.2	13.4
NW	1.0	5.5	7.4	5.0	2.1	.7		21.8	19.1	18,6	.0	22.8	21.1	21.6	12.5	24.5	22.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2				•			2.2	.0	2.7	.0	2.9	1.7	2.3	.0	1.8	1.7
TOT DBS	139	593	601	339	122	26	1820		15.9	291	3	311	295	301	4	383	232
TOT PCT	7.6	37.6			6.7	1.4		100.0			100.0	100.0			100.0		

WND DIR	0-6	WIND 7-16	SPEED 17-27		41+	TOTAL	PCT	MEAN SPD	00	HDU1	12 15	18 21
N	2.8	5.6	6.4	3.2	1.1		19.2	19.0	21.2		18.4	18.2
NE	2.6	2.7	1.4	.6	. 1		7.3	12.1	7.5	8.4	5.3	7.0
E	1.6	2.8	4	.0	.0		4.8	9.0	3.6	5.9	5.2	4.2
SE	1.5	3.9	1.6		.1		7.6	12.8	5.4	8.1	11.5	6.1
5	2.9	4.8	2.1	1.0	.1		10.9	13.1	11.8	8.8	12.0	12.0
SW	2.1	5.4	3,9	1.6	.2		13.2	16.0	15.9	12.0	10.4	14.5
W	2.1	4.8	3,6	1.8	.7		13.0	17.2	13.5	12.9	13.4	12.6
NW	3.2	7.4	5,9	3.5	1.8		21.8	19.1	18.4	22.0	21.5	23.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2		•				2.2	.0	2.7	2.3	2.3	1.8
TOT OBS	383	682	461	221	73	1820		15.9	294	606	305	615
			25,3	12.1	4.0		100.0					
TOT PCT	21.0	37.5	50,0		4.0		100.0		100.0	100.0	100.0	100.0

PERIOD:	(PRIMARY) (OVER-ALL)	1907-197 1873-197						TABLE	4			AREA	0027 V	ALDIVIA 74.5W
				PER	CENTAGE	FREQUE	ENCY OF	WIND S	PEED 84	HOUR	(GMT)			
		HUUR	CALM	1-3	4-10			(KNOTS)		MEAN	PCT	TOTAL		
		00603	2.7	5.8	33.7	30.3	20.4	6.4	2.1	15.7	100.0	606		
		12615 18621 TOT PCT	2.3 1.8 40 2.2	3.9 6.2 99 5.4	34.1 30.9 593 32.6	32.5 34.0 601 33.0	19.7 18.7 339 18.6	7.2	1.3		100.0	305 615 1820		

			т.	ARLE 5								T	ABLE 6					
P	CT FRE			CLOUD A		(EIGHTHS)			PERCEN	AND DO	REQUEN	CY OF	CEILIN NH <5/	B BY	HTS (FT, NH IRECTI	>4/8) ON	
WND DIR	0-2	3-4	5-7	8 & nB5CD	TOTAL	CLOUD	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH 45/8	
N	1.3	3.4	7.1	21.1		6.9	3.0	1.3	2.8	5.5	11.5	.8	.0	.0	.0	.0	8.1	
NE	.0	1.7	2.6	5.3		6.4	.0	. 2	.0	1.9	2.6	. 8	.0	.0	.0	.0	4.1	
E	. 8	.6	. 8	.6		4.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	2.1	
SE	.9	. 8	. 8	1.7		4.9	.0	.0	.0	. 8	. 9	. 8	.0	.0	.0	.0	1.7	
S	1.9	. 6	3.4	. 8		4.6	.0	.0	.0	. 8	1.5	. 8	.0	.0	.0	.0	3,6	
SW	.9	2.4	9.6	1.5		5,5	.0	.0	.0	3.2	1.5	1.5	. 8	.0	.0	1.5	6.0	
W	1.5	2.6	2.1	3.4		5,2	.0	.0	.0	2.8	2.1	.6	.0	.0	.0	.0	4.1	
NW	. 2	2.3	3.8	13.9		7.1	. 8	.0	. 9	6.2	3.4	3.2		. 8	.0	.0	4.9	
VAR	.0	.0	.0	.0		.0	,0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	10	19	40	64	133	6,2	5	2	5	28	32	11	1	1	0	2	46	133
TOT PCT	7.5	14.3	30.1	48.1	100.0		3.8	1.5	3,8	21.1	24.1	8.3	.8	. 8	.0	1.5	34.6	100.0

					TABL	E 7A					
		P	ERCENT	AGE FRI	EQ OF	LOW	CLC	ouns (EIGHT	45)	
0	1	,	3	4	5		6	7	8	OBSCD	TOTAL
5,1	3.7	5,9	11.0	9.6	8.8	10.	3	6.6	36.8	2.2	136

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									JUNE					
PERIOD:		1907-1977 1873-1977						TA	BLE 8				ARE	40.25 74.5W
			PE	RCENT	PREC	F WIN	D DIRE	CTIUN TH VAR	VS DCC	URRENC	E DR N	IBILI	URRENC	E OF
	VSBY		N	NE	F	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
		PCP	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	
	<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		TOT \$.0	.0	.0	.0	.0	.0	>0	1.3	.0	.0	1.3	
		PCP	1.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	2,6	
	1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		TOT %	1.8	. 8	.0	.0	.0	.0	.0	.0	.0	.0	2,6	
		PCP	.7	.0	.0	.0	.0	.7	.5	. 8	.0	.0	2.6	
	1<2	NO PCP	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
		TOT \$	2.6	.7 .7	.0	.0	.0	.0	.0	.8	.0	.0	5,3	
		PCP	1.8	,2	,5	.0	.0	.7	.5	1.7	.0	.0	5.3	
	245	NO PCP	3.0	.2	.0	.0	.0	.0	.5	1.7	.0	.0	5.3	
		TOT *	4.8	. 3	.5	.0	.0	.7 .0 .7	1.0	3.3	.0	.0	10.6	
		PCP	3.8	1,5	.5	.2	.0	.0	.5	1.5	.0	.0	7.9	
	5<10	NO PCP	7.0	1.0	.0	2.0	1.3	1.3	1.0	3.0	.0	.0	16.6	
		TOT *	10.8	2.5	.5	2.2	1.3	1.3	1.5	4.5	.0	.0	24.5	
		PCP	.7	.7	.0	.0	.0	.7	.7	.7	.0	.0	3.3	
	10+	NO PCP	10.6	4.5	1.8	2.2	5.6	12.3	7.8	7.6	.0	.0	52.3	
		TOT \$	11.3	5,1	1.8	2.2	5.6	12.9	8.4	8.3	.0	.0	55.6	
		TOT 085												151
		TOT PCT	31.3	9.4	2.8	4.3	7.0	15.6	11.4	18.2	.0	.0	100.0	

SBY	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
NM)	KTS							•					OBS
1/2	0-3	.0	• 0	•0	.0	•0	.0	.0	.0	.0	.0	•0	
1/2	4-10	.0	• 0	•0	.0	.0	.0	.0	.8	.0		. 8	
	11-21	.0	.0	.0	.0	.0	.0	.4	.0	.0		.4	
	22+	.0	.0	•0	.0	.0	.0	.0	.0	.0	•	.0	
	TOT %	.0	•0	•0	.0	.0	.0	.4	.8	.0	.0	1.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
/2<1	4-10	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.7	.5	.0	.0	.0	.0	.0	.0	.0		1.2	
	TOT %	1.1	.5	•0	.0	.0	.0	.0	.0	.0	.0	1.6	
	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1<2	4-10	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.4	.0	.0	.0	.0	.0	.3	.1	.0		. 8	
	224	1.0	.4	.0	.0	.0	.0	.0	.6	.0		2.0	
	TOT \$	1.8	• 4	.0	.0	.0	.4	.3	.7	.0	.0	3.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
2<5	4-10	.3	.0	.4	.0	.0	. 4	. 3	.2	.0		1.5	
	11-21	1.4	.4	.5	.0	.0	.0	. 3	1.4	.0		4.0	
	22+	2.2	.0	.0	.0	.0	.0	.4	1.0	.0		3.6	
	TOT %	3.9	• 4	.9	.0	.0	.4	1.0	2.6	.0	.4	9.5	
	0-3	.4	.0	.0	.0	.0	.0	.0	.0	.0	. 8	1.2	
5<10	4-10	2.0	.2	.5	.5	.0	.0	.3	.5	.0		4.0	
	11-71	1.7	1.7	. 4	.8	1.0	1.8	1.2	1.8	.0		10.3	
	22+	6.3	.6	.0	.4	.4	1.2	. 8	1.4	.0		11.1	
	TOT *	10.4	2.5	.9	1.7	1.4	3.0	2.3	3.7	.0	.8	26.6	
	0-3	.4	.8	.4	.0	.9	.3	.0	.0	.0	1.6	4.4	
10+	4-10	4.4	• 7	1.1	1.1	2.5	3.2	2.4	3.4	.0		18.7	
	11-21	3.6	1.6	.0		3.0	4.9	1.8	3.9	.0		19.0	
	22+	4.2	1.0	.0	.0	.0	4.2	2.9	3.3	.0		15.5	
	TOT \$	12.5	4.1	1.5	1.5	6.3	12.5	7.0	10.5	.0	1.6	57.5	

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1873-1977

TABLE 10

AREA 0027 VALDIVIA 40.25 74.5W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/B) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150 299	300 599	999	1999	2000 3499	3500 4999	5000	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	3.4	.0	6.9	6.9	31.0	10.3	.0	3.4	.0	3,4	65.5	34.5	29
90300	•0	.0	3.1	28.1	18.8	3.1	. 0	.0	.0	.0	53.1	46.9	32
12815	2.9	5.7	2.9	14.3	31.4	5.7	.0	.0	.0	.0	62.9	37.1	35
18621	7.7	.0	2.6	31-1	15.4	12.8	2.6	.0	.0	2.6	74.4	25,6	39
TOT PCT	3.7	1.5	3.7	28	23.7	8.1	.7	.7	.0	1.5	87	48 35,6	135

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSBY	(MM)	BY HOUR		CUMULAT	TVE PCT	FREQ G HGT	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HDUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.0	2.0	2,0	2.0	28,0	66.0	50	£0300	3,6	14.3	28.6	35.7	35.7	28
90360	1.2	1.2	.0	7.1	34.1	56.5	85	90360	.0	9.4	37.5	15.6	46.9	32
12615	3.5	.0	5,3	15.8	21.1	54.4	57	12815	3.1	15.6	37.5	28.1	34.4	32
18821	.0	3.3	8,2	13.1	19.7	55.7	61	18621	7.7	15.4	56.4	20.5	23.1	39
PCT	1.2	1.0	3,6	9.5	26,5	57.7	253	TOT	3,8	18	54 41.2	32	45 34.4	131
	00603 06609 12615 18621	(GMT) 00£03 .0 06£09 1.2 12£15 3.5 18£21 .0	HOUR (GMT)	HQUR (GMT) <1/2 1/2<1 1<2 10003 .0 2.0 2.0 06609 1.2 1.2 .0 12615 3.5 .0 5.3 18621 .0 3.3 8.2	HQUR (GMT)	HOUR (GMT)	HQUR (GMT)	00603 .0 2.0 2.0 2.0 28.0 66.0 50 00609 1.2 1.2 .0 7.1 34.1 56.5 85 12615 3.5 .0 5.3 15.8 21.1 54.4 57 18621 .0 3.3 8.2 13.1 19.7 55.7 61	PERCENT FREQUENCY VSBY (NM) BY HOUR (GMT) 00603 .0 2.0 2.0 2.0 28.0 66.0 50 00803 06609 1.2 1.2 .0 7.1 34.1 56.5 85 06609 12615 3.5 .0 5.3 15.8 21.1 54.4 57 12815 18621 .0 3.3 8.2 13.1 19.7 55.7 61 18621	CEILING CALCAL CALCAL	CELLING HGT	CELLING HGT (FEETA FREQUENCY VSBY (NM) BY HOUR CELLING HGT (FEETA HOUR (150 C500 C1000 C1001 C5)	CEILING HOT (FEET,NM >4/8 HOUR CEILING HOT (F	HOUR (GMT) <1/2 1/2<1 1<2 2<5 5<10 10+ TOTAL DBS (GMT) <150 <600 <1000 1000+ NH <5/8 (GMT) <70 PM

TABLE 13

TABLE 14

	PERC	ENT FR	EQUENC	Y UF R	ELATIV	E HUMI	DITY B	Y TEMP				PERC		FOLIENC	v ne 1	ITND DI	DECTIO	N BY T	EMD	
TEMP F								90-100	TOTAL	FREQ	N	NE	E	SE	s	SH	*	NW.	VAR	MJAS
60/64	.0	.0	.0	.0	.0	.0	7	7	•	1 2	•	•			_	_		_		
55/59	.0	.0	.0			4.0		15.3	39	26.0	10.7	4.3	.0	• 0	• 0	• /	.0	. 7	.0	• 0
50/54							2.3						.0	.7	. 7	.0	1.0	8.7	.0	.0
	.0	.0	.0	1.3	2.7	16.0	17.3	14.0	77	51.3	18.7	3.3	2.3	. 8	4.0	8.5	5.0	8.7	.0	.0
45/49	.0	.0	.0	. 7	2.0	7.3	6.7	3,3	30	20.0	1.3	2.0								
40/44	.0	.0	.0						-0			2.0	1.2	2.2	1.2	4.3	6.3	1.5	.0	.0
					.0		. /	. /	2	1.3	.0	.0	.0	. 7	• 7	.0	.0	.0	.0	.0
TOTAL	0	0	0	3	9	61	46	51	150	100.0		-							• • •	
PCT	.0	.0	• 0	2.0	6.0	27.3	30.7	34.0			30.7	9.7	3.5	4.3	6.5	13.5	12.3	19.5	.0	.0

TAPLE 15

	HEARING	CVIKENES	AND	PERCEN	irrez	de LE	IN COE	C +) 8	Y HOUR
HOUR (GMT)	MAX	99\$	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	60	58	57	51	46	42	40	50.9	294
06609	61	58	56	51	45	42	38	50.8	610
12615	59	58	56	51	45	42	40	50.8	300
18821	61	59	57	52	46	43	42	52.1	589
TOT	61	5.8	57	51	44	42	20		. 400

1 8

HOUR 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTA (GMT) 080 00603 .0 2.9 8.6 28.6 37.1 22.9 82 35 00609 .0 2.6 5.3 21.1 26.3 44.7 85 38 12615 0 .0 2.6 28.2 30.8 38.5 85 39 18621 .0 2.6 7.7 30.8 30.8 28.2 82 39 1707 0 2.6 7.7 30.8 30.8 28.2 82 39

JUNE

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1873-1977

TABLE 17

AREA 0027 VALDIVIA 40.25 74.5W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	41 44	45	49 52	53 56	57 60	61 64	TOT	FOG	FOG
11/13	.0	.0	.0	.0	.0	.8	1	.0	.8 1.5
9/10	.0	.0	.0	.8	.0	.0	1 2	.0	1 6
			. 0	.0	1.5	.0	-		. 8
5	.0	.0	.0	1.5	1	.0	2 5	. 8	3.0
3 2	.0	. 8	.0	1.5	1.5		,	.0	3.8 9.0 3.8
3	.0	. 8	.0	2.3	6.0	.0	12	.0	9.0
2	.0	. 8	.0	4.5	.0	.0	7	1.5	3.8
1	.0	.0	. 8	5.3	.0	.0	8	.0	6.0
ō	.0	.0	3.8	9.8	1.5	.0	20	2.3	12.8
-1	.0	.0	8.3	4.5	.0	.0	17	.0	12.8
1 0 -1 -2 -3	.0	1.5	6.8	3.0	.0	.0	15	.0	11.3
-3	.0	1.5	6.0	1.5	. 8	.0	13	.0	9.8
-4	.0	2,3	5.3	4.5	.0	.0	16	.0	12.0
-5	.0	1.5	2.3	.0	.0	.0	5	.0	3.8
-6	.0	1.5	1.5	.0	.0	.0	4	.0	3.0
-7/-8	1.5	. 8	. 8	.0	.0	.0	4	.0	3.0
-9/-10	.0	. 8	.0	.0	.0	.0	1	.0	. 8
TOTAL	2		48		16			6	127
-		16		50		1	133		
PCT	1.5	12.0	36.1		12.0	. 8	100.0	4.5	95.5

PERIOD: (QVER-ALL) 1964-1977

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE			
HGT	1+3	4-10	11-21	22-33	34-47	48÷	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	-0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
1-2	1.3	2.6	.0	.0	.0	.0	3.9		.0	.0	.0	.0		.0	.0
3-4	.0	1.0	3.6	.0	.0	.0	4.5		.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	1.9	.0	.0	.0	1.9		.0	.0	2.6	.0		.0	2.6
7	.0	.0	3.2	3.2	.0	.0	6.5		1.3	.0	1.3	.6	.0	.0	3.2
8-9	.0	.0	.0	6.5	.0	.0	6,5		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.6	1.3	.0	3.9		.0	.0	.0	.0	2.6	.0	2.6
12	.0	.0	.0	1.3	1.3	.0	2,6		.0	.0	.0	.0	0 0 0 0 0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	:0	.0	.0
	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	:0	.0	.0
B7+	1.3	3.6	8.8	13.6	2.6	.0	29.9		1.3	.0	5.5	.6	2.6	.0	10.1
TUT PCT	1,5	3.0	8.0	13.0	2.0	.0	24.4		1.5		3,3	.0	2.0	•0	10.1
				E								22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	.0	.0	.0	.0	.0	1.3		.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0		•0	.6	.0	.0		.0	.0
3-4	.0	.0	1.0	.0	.0	.0	1.0		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	1.3	1.3	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	000000	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	• 0		.0	:0	.0	.0	• •	.0	.0
12	•0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• •	.0	.0
17-19	• 0	• 0	.0	.0	:0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
20-22	• 0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
23-25	•0	.0	:0	.0	:0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
26-32	:0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
33-40	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	00000000000000000	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	:0	.0	.0	.0
61-70	:0	.0	:0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	1,3	1.0	1.0	.0	.0	.0	3,2		.0	. 6	1.3	1.3	.0	.0	.0
		2.0	1.0	••			***		••	••			••		

PERIODI	LOVE	P-ALL)	1942-1	077					JUNE				ADEA	0027	VALDIVI	
PERIODI	LUVE	(-ALL)	1963-1	971				TABLE :	18 (CONT)				AREA			.5W
				PC	T FREG D	F WIND	SPEED	(KTS)	AND DIREC	TION	VERSUS	SEA HEIG	HTS (FT			
HGT		4-10		5	24-49	40.				4-10		22-33	24.47	48+		
<1	1-3	4-10	11-21	27-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	.0	PCT	
1-2	.0	2.3	.0	•0	.0	.0	2.3		2.6	.0	.0	.0	.0	.0	2.6	
3-4	.0	0	:0	.0	.0	.0	.0		0	2.6		:0	.0	.0	2.6	
5-6	1.0	.0	1.0	.0	.0	.0	1,9		, 3	.0		.0	.0	.0	1.9	
7	1.0	.0		.0	.0	.0	1.0		.3	.0	.0	5.2	.0	.0	5.5	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	1.3	.0	.0	.0	.0	1.3	
10-11	.0	.0	2.3	.0	.0	.0	2,3		.0	.0		.0	.0	.0	. 3	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0000000000	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	:0	.0	.0	
41-48	.0	.0	.0	• 0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	3.9		.0	.0	.0	.0	
UT PET	1.9	2.3	3.2	•0	.0	•0	7.5		3.2	3.7	1.9	5.2	.0	.0	14.3	
				u								NW				TOTA
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PC'
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0		.0	2.6	.0	.0		.0	2.6	
3-4	.0	1.0	1.9	.0	.0	.0	2.9		.0	.6	3.6	.0	.0	.0	4.2	
5-6	.0	.0	1.0	1.9	.0	.0	2.9		.0	.0		.6	.0	.0		
7	.0	.0	1.0	.0	.0	.0	1.0		.0	.0		2.6	.0	.0	4.9	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0		1.3	.0	.0	1.3	
10-11	.0	.0	.0	•0	.0	.0	.0		.0	.0		5.2	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
13-16 17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
23-25	•0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	•0	.0	.0	•0	•0	•0	.0		.0			.0	.0	.0	.0	
33-40	.0	.0	.0	•0	.0	.0	.0		.0	:0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	:0	.0	.0	
49-60	.0	.0	.0		.0	.0	.0		.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	:0		.0	:0	.0	.0	.0	.0	:0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0		
											12.0					

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(PT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	1.3	.0	.0	.0	.0	.0	1.3	083
1-2	3.9	9,1	.0	.0	.0	.0	13.0	
3-4	.0	5,2	11.7	.0	.0	.0	16.9	
5-6	1.3	.0	15.6	3.9	.0	.0	20.8	
7	2.6	.0	7.8		.0	.0	22.1	
8-9		1,3	.0	7.8	.0	.0	9.1	
10-11	.0	.0	2.6	7.8	3.9	.0	14.3	
12	.0	.0	.0	1.3	1.3	.0	2.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0		.0	
49-60	.0	.0		.0	.0		.0	
61-70	.0	.0		.0	.ŏ		.0	
			•0					
71-86	.0	.0	• 0	.0	.0		.0	
87+	.0	. D	.0	.0	.0	.0	.0	140
	-			10000			100,000,000	77
TOT PCT	9.1	15,6	37.7	32.5	5.2	.0	100.0	

PERIOD	(OV	ER-ALL	195	2-197	,				TABLE	19											
					PERCENT	FREG	UENCY	OF WA	VE HEI	HT (F	r) vs	WAVE P	ERIOD	(SECON	DS)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	6-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	.0	4.3	4.3	1.7	4.3	2.6	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	5
6-7 8-9 10-11 12-13	.0	4.3	3.5	1.7	6.1	6.1	1.7	4.3	1.7	:0	.0		.0	.0	.0	.0	.0	.0	.0	34	7
8-9	.0	.0	1.7	1.7	.9	2.6	4.3	3.5		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	9
10-11	.0	.0	.0	.9	.9	.9	8.7	6.1	2.6	:0	.9	.0	. 9	.0	.0	.0		.0	.0	25	12
12-13	.0	.0	.9	.0	.0	1.7	.9	.0		.9	.0	.0	.0		.0	.0		.0	.0	5	9
>13 INDET	.0	.0	.0	.0	2.6	.9	.9	.0		1.7	.0				.0	.0		.0	.0	7	10
INDET	.9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0			.0	.0	.0	.0	.0	2	8
TOTAL	1	.0	12	. 7	17	. 17	20	17	. 9	3	1	0	1	0	. 0	0	0	0	0	115	8

AREA 0027 VALDIVIA 40.38 74.5W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SND	
N	29.5	1.1	3.8	.0	.0	.0	.0	34.4	7.7	1.6	4.4	.0	2.2	.0	49.7
NE	11.1	3.7	14.8	.0	.0	.0	.0	29.6	9.3	.0	.0	.0	.0	.0	61.1
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	93.9
S	3.6	.0	.0	.0	.0	.0	.0	3.6	3.6	2.7	.0	.0	.0	.0	90.2
SW	1.7	5.1	.0	.0	.0	.0	.0	6.8	.0	1.7	.0	.0	.0	.0	91.5
W	6.9	5.6	.0	.0	.0	.0	.0	12.5	4.9	2.1	2.1	• 0	.0	.0	78.5
NW	19.7	.5	9.0	.0	.0	.0	.0	29.3	5.3	3,2	.5	.0	.0	.0	61.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	60.0
TOT PCT	12.8	1.8	3.7	.0	.0	•0	.0	18.3	5.0	1.8	2.3	•0	.5	.0	72.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHENO	MENA	
(GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	16.7 13.5 8.8 11.3	1.7 3.8 1.8 1.9	1.7 3.8 3.5 5.7	.0	.0	.0	.0	20.0 21.2 14.0 18.9	1.7 3.8 8.8 5.7	1.7 3.8 .0 1.9	1.7 3.8 .0 3.8	•0	1.7	.0	73.3 67.3 77.2 69.8
TOT PCT	12.6	2.3	3.6	.0	.0	.0	•0	18.5	5.0	1.8	2.3	•0	.5	.0	72.1

TABLE 3

PERCENTAGE PREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

						00000000	Control of the Control										
				ED (KN										(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	.8	4.6	5.7	4.0		.2		16.5	17.5	16.4	16.7	17.5	15.7	16.3	50.0	17.2	
NE	.5	2.5	2.0	.8	.2			6.1		4.3	.0	6.0			16.7	6.3	3.4
E SE	. 8	2.1	1.8	.3	.1	.0		5.1	10.8	5.6	.0		4.4	6,8	.0	3.5	3.9
SE	.5	3.9	3.2	.6		.0		8.2	11.5	6,3	.0	8.8	9.4	7.5	.0	9.9	6.6
S	1.1	5.3	4.8	1.6	.3	. 2		13.1	13.5	14.5	.0	11.0	11.9	12.8	.0	13.8	15.2
SW	1.2	4.8	4.1	1.6	.4	. 2		12.3	13.7	12.5	.0	11.8	11.9	12.4	.0	13.4	11.5
W	.7	3.6	5.3	3,9	.7	.1		14.3	17.2	13.5	.0	12.4	13.0	13.0	33.3	15.7	18.4
NW	- 6	5.7	8.3		1.5			22.0	17.8	24.9	83.3	21.5	21.5	21.4	.0	18.6	25.3
VAR	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5	• • •		•••				2.5	.0	2.1	.0		4.7	1.5	.0	1.7	.7
TOT OBS	175	651	706	374	86	15	2007		15.0	339	3	335	300	337	3	423	267
TOT PCT	8.7	32.4	35.2		4.3	.7	2001	100.0			100.0	100.0			100.0		

TABLE	34

WNO DIR	0-6	WIND 7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	100 06 09	12 15	18
N NE	2.4	5.5	5.3	2.7	.5		16.5	17.5	16.4	16.7	16.6	16.3
	1.5	2.6	. 8	.1			5,1	10.8	5.6	5.5	6.7	3.7
S.E	1.9	4.3	1.8	.1			8.2	11.5	6.3	9.1	7.4	8.6
5	2.9	6.2	2,8	1.0	.3		13.1	13.5	14.3	11.4	12.7	14.3
SW	3.0	5.7	2,3	1.0	.4		12.3	13.7	12.4	11.9	12.3	12.7
W	1.7	5.5	5,0	1.8	.3		14.3	17.2	13.4	12.7	13.2	16.7
NW	2.4	7.7	7.7	3.9	.4		22.0	17.8	25.4	21.5	21.3	21.2
VAR	.0	.0	.0	+0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.0	4.6	1.5	1.3
TOT OBS	398	798	550	221	40	2007		15.0	342	635	340	690
TOT PCT	19.8	39.8	27.4	11.0	2.0		100.0		100.0	100.0	100.0	100.0

٠	1		

PERIOD: (PRIMARY) 1907-1976 (DVER-ALL) 1871-1976

TABLE 4

AREA 0027 VALDIVIA 40.35 74.5W

PERCENTAGE	FREQUENCY	OF	WIND	SPEED	BY	HOUR	(GMT)	

HOUR	CALM	1-3	4-10	WIND	SPEED 22-33		48+	MEAN	PCT	TOTAL
60300	2.0	7.3	32.2	33.6	20.2	4.4	.3	15.1	100.0	342
90300	4.6	6.0	32.1	36.4	17.0	3.0	.9	14.3	100.0	635
12615	1.5	6.8	36.5	33.2	17.1	3.8	1.2	14.8	100.0	340
18421	1.3	5.7	30.9	35.8	20.1	5.7	. 6	15.8	100.0	690
TUT	50	125	651	706	374	86	15	15.0	-	2007
PCT	2.5	6.2	32.4	35.2	18.6	4.3	.7		100.0	

			17	AUPE 3								1,	ADEE O					
	PCT FRE		TOTAL (DIREC		(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN NH <5/	B BY	IND D	IRECTIO	4/8) N	
WND DIR	0-2	3-4	5-7	185CD	TOTAL		000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	5500 7999	8000+	NH <5/8	
N	2.2	1.6	2.3	12.2		6,5	1.6	.0	.0	4.3	4.4	1.3	.0	.0	.0	.0	6.7	
NE	.0	.0	1.3	4.0		7.7	.0	.0	.0	1.9	.6	1.0	.5	.0	.0	.0	1.2	
E	2.2	1.0	1.8	. 9		4.4	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	4.9	
SE	3.2	2.7	.5	2.1		3.4	.0	.0	.0	.5	.5	1.0	.0	.0	.0	.0	6.5	
5	3.9	2.5	4.7	2.2		4.3	.0	.0	.5	.0	3.0	1.4	.4	.0	.0	.4	7.5	
SW	1.2	2.2	2.7	1.3		4,6	.0	.0	.0	.3	. 8	1.3	.1	.0	.0	.1	4.8	
W	2.2	4.9	6.0	4.3		5.1	.4	.0	.4	1.3	5.1	1.7	.0	.0	.0	.0	8.5	
NW	1.7	2.2	7.6			6.4	.6	1.6	.6	2.1	5.8	3.6	.0	.0	.0	.0	8.5	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.5	.5		7.5	. 5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
TOT OBS		33	53	75	193		6	3	3	20	41	22	2	0	0	1	95	193
TOT PCT	16.6	17.1	27.5	38.9	100.0		3.1	1.6	1.6	10.4	21.2	11.4	1.0	.0	.0	.5	49.2	100,0

TABLE 7

CUMULATIVE PCT EREO	DF SIMULTANEOUS OCCURRENCE
	(NH >4/8) AND VSBY (NM)
De CETETAG METON	(MU Selet Wine 1201 (MU)

				VSBY (NM	1)			
CEILING	- OR	- DR	• OR	• OR	- OR	- OR	- OR	- OR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ DR >6500	.5	.5	.5	:5	:5	:5	.5	.5
■ DR >5000	.5	.5	.5	.5	.5	.5	:5	.5
■ OR >3500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
■ DR >2000	7.7	11.8	12.3	12.3	12.3	12.8	12.8	12.8
= OR >1000	22.6	30.8	33.3	33.3	33.3	33.8	33.8	33.8
■ DR >600	26.7	37.4	42.6	43.6	43.6	44.1	44.1	44.1
■ R >300	27.7	38.5	44.1	45.1	45.1	45.6	45.6	45.6
- OK >150	27.7	40.0	45.6	46.7	46.7	47.2	47.2	47.2
- DR > 0	27.7	40.5	47.7	48.7	49.2	50.3	50.3	50.3
TOTAL	54	79	93	95	96	98	98	98

TOTAL NUMBER OF OBS1 195 PCT FREQ NH <5/81 49.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	•	5	6	7		OBSCD	TOTAL	
11.3	8,3	6,9	11,3	11.3	8,3	6,4	6.4	27.0	2.9	204	

PERIOD: (PRIMARY) 1907=1976 Percent Freq of Mind Direction vs Occurrence or Non-occurrence of Precipitation with Varying Values of Visibility VSBY	
VSBY N NE F SE S SW W NW VAR CALM PCT TDTAL (NM) PCH .0 .5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .5 1/2 ND PCP .5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .5 TOT \$.5 .5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .9	VALDIVIA
OBS OBS OBS OBS OBS OBS OBS OBS	
PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
1/2«1 ND PCP .D .D .D .D .D .D .1 .0 .0 .5	
TOT % .0 .0 .0 .0 .0 .3 .1 .0 .0 .5	
PCP .2 .2 .0 .0 .0 .0 .0 .0 .5	
1<2 NO PCP .3 .1 .0 .0 .0 .0 .0 .0 .5	
1<2 NO PCP .3 .1 .0 .0 .0 .0 .0 .0 .0 .0 .5 TOT \$.6 .3 .0 .0 .0 .0 .0 .0 .0 .0 .9	
PCP 2.2 .5 .0 .0 .0 .7 .8 .0 .0 4.1	
2<5 NO PCP 2.2 .6 .0 .0 .1 .3 .5 .0 .9 4.6	
TOT # 4.4 1.0 .0 .0 .0 .1 1.0 1.3 .0 .9 8.8	
PCP 3.0 .7 .0 .0 .0 .1 .8 4.1 .0 .0 8.8	
5<10 NO PCP 3.5 .5 .0 .0 .0 1.0 4.3 .0 .5 9.7	
TOT \$ 6.5 1.2 .0 .0 .0 .1 1.8 8.4 .0 .5 18.4	
PCP 1.8 .0 .0 .0 .5 .3 .6 1.4 .0 .0 4.6	
10+ NO PCP 7.4 3.2 5.3 7.6 12.1 6.1 12.8 10.5 .0 .9 65.9	
TOT \$ 9.2 3.2 5.3 7.6 12.6 6.5 13.4 11.9 .0 .9 70.5	
TOT 08S 217	
TOT PCT 21.1 6.2 5.3 7.6 12.6 6.7 16.6 21.7 .0 2.3 100.0	

				PERCEN	T FREG	OF WI	ND DIF	ECTION	VS WI	ND SPE	ED		
VSBY	SPO	N	NE	E	SE	s	SW	w	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.3	.3	.0	.0	.0	.0	.0	.0	.0		.7	
	TOT \$.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.3	.1	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	•0	.0	.0	.0	.3	.1	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.2	.0	.0	.0	.0	.0	.2	.3	.0		.7	
	224	.4	.3	.0	.0	.0	.0	.2	.5	.0		1.4	
	TOT \$.6	.3	•0	•0	.0	.0	.3	.8	.0	.0	2.0	
	0-3	.2	.0	.0	.0	.0	.0	.0	.5	.0	.7	1.4	
245	4-10	.7	.0	.0	.0	.0	.0	.3	.1	.0		1.0	
	11-21	2.2	.4	.0	.0	.0	.0	.3	.5	.0		3.4	
	22+	2.4	.5	.0	.0	.0	.1	.3	. 8	.0	_	4.1	
	TOT %	5.4	.9	.0	.0	•0	.1		1.9	.0	.7	9.8	
161.7	0-3	.5	.0	.3	.0	.0	.0	.0	.2	.0	.3	1.4	
5<10	4-10	1.0	.3	.0	.0	.0	.1	.5	.1	.0		2.0	
	11-21	1.7	.0	.0	.0	.0	.0	.7	1.7	.0		4.1	
	22+	3.7	.7	.0	.0	.0	.0	1.2	4.9	.0		10.5	
	TOT \$	6.9	1.0	.3	.0	.0	.1	2.4	6.8	.0	.3	17.9	
	0-3	.4	.4	. 8	.4	.3	.8	.0	.3	.0	.7	4.1	
10+	4-10	4.1	2.1	2.4	3.5	4.9	3.2	4.7	2.4	.0		27.4	
	11-21	2.7	1.4	1.3	3.4	5.3	1.9	3.1	4.0	.0		23.0	
	224	2.2	.5	.3	.7	2.8	1.3	3.3	3.8	.0	_	14.9	
	TOT \$	9.5	4.4	4.7	7.9	13.3	7.1	11.1	10.5	.0	.7	69.3	
	250 TOT				-								296
1	TOT PET	22.7	6.9	5.1	7.9	13.3	7.3	14.9	20.3	.0	1.7	100.0	

PERIOD: (PRIMARY) 1907-1976		1054 0007 WALES
		AKEA DOZY VALDIVIA
(DVER-ALL) 1871-1976	TABLE 10	AREA 0027 VALDIVIA 40.35 74.5W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL	
60300	1.9	.0	3.8	9.6	21.2	11.5	1.9	.0	.0	.0	50.0	50.0	52	
90360	2.3	2.3	2.3	6.8	29.5	6.8	.0	.0	.0	.0	50.0	50.0	44	
12615	.0	1.9	.0	13.5	11.5	13.5	.0	.0	.0	1.9	42.3	57.7	52	
18621	8.0	2.0	•0	10.0	22.0	12.0	2.0	.0	.0	.0	56.0	44.0	50	
TOT PCT	3.0	1.5	1.5	10.1	20.7	11.1	1.0	.0	.0	.5	98	100 50.5	198	

			T	ARLE 1	1						TABLE	12		
		PERCENT	FREQUENC	V VSBY	(NM)	BY HOUR		CUMULAT	TVE PCT	FREQ IG HGT	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.0	.0	2.7	8.1	20.3	68.9	74	00603	2.0	5.9	19.6	31.4	49.0	51
90360	.0	.0	.0	9.2	14.5	76.3	76	90300	2,3	7.0	16.3	34.9	48.8	43
12615	1.4	.0	.0	8.7	15.9	73.9	69	12615	.0	3,9	21.6	25,5	52.9	51
18821	1.2	1.2	4.9	13.6	19.8	59.3	81	18621	8.0	10.0	26.0	32.0	42.0	50
TOT	.7	.3	2.0	30	17.7	208	300	TOT	3.1	13	41	60	94	195

					ABLE 1	,									TABL	- 14				
	PERCE	ENT FR	EQUENCY	UF R	ELATIVE	HUMI	DITY B	Y TEMP				PERCE	ENT FRI	EQUENC	Y OF W	10 ON1	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	56-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	s	SW	W	NW	VAR	CAL
55/59 50/54	.0		.0	1.0	.0	3,8	18.8	1.0	21	10.1	1.7	.7	2.9	.0	.4	.8	2.0	4.4	.0	.0
	.0	.0	.5	1.9					117	56.3	14.9	3,6		2.6	4.4	3.8	9.4	13.1	.0	1.4
45/49	.0			2.9		10.6	8.7	1.9	62	29.8	2.2	1.4	2.3	4.1	7.3	5.0	5.8	3.7	.0	1.0
40/44	.0			.0		1.4	.5	.0	7	3.4	.4	. 1	. 8	1.1	. 5	. 1	.4	.0	.0	. (
35/39 TOTAL	•0	0	2	12	29	61	66	36	208	100.0	.0	.0	.0	•0	•0	•0	.0	.5	.0	• 0
PCT	.0	.0	1.0	5.8	13.9	29.3	32.7	17.3			19.1	5.9	6.0	7.8	12.6	6.9	17.5	21.8	.0	2.4

	TARLE 15									TABLE 16								
	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR								PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	58	57	55	50	44	43	41	50.2	340	E0300	.0	5.2	12.1	37.9	34.5	10.3	79	58
06809	58	57	55	50	44	42	39	49.5	637	90300	.0	8.2	14.3	28.6	26.5	22.4	79	49
12815	58	57	55	49	44	39	37	49.4	338	12815	.0	3.4	15.5	25.9	37.9	17.2	80	58
18621	61	57	55	51	46	43	41	50.9	677	18621	.0	10.6	17.0	21.3	29.8	21.3	79	47
TOT	61	57	55	50	44	42	37	50,1	1992	TOT	0	14	31	61	69	37	79	212

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JULY

PERIODI	RIOD: (PRIMARY) 1907-1976 (OVER-ALL) 1871-1976		TABLE 17	AREA 0027 VALDIVIA 40.35 74.5W
		PCT FREQ OF AIR	TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WI'VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)	THOUT PRECIPITATION

7/8
5 .0 .0 .0 .0 .0 .2.0 4 .0 2.0 4 .0 .0 .0 .0 .10 .5 3 .0 1.5 3 .0 .0 .0 .0 .3.9 1.0 10 .0 4.9 2 .0 .0 .0 2.0 3.9 1.0 12 .0 5.9 1 .0 .0 .0 2.9 3.9 .5 15 .0 7.3 0 .0 .0 .0 3.3 4.4 .5 23 .0 11.2 -1 .0 .0 1.0 9.8 2.9 .0 28 .5 13.2 -2 .0 .0 1.5 8.8 2.4 .0 26 1.0 11.7 -3 .0 .0 3.4 6.3 1.5 .0 23 .5 10.7 -4 .0 .0 5.9 3.4 1.5 .0 22 .5 10.2 -5 .0 5 4.9 2.0 .5 .0 16 .0 7.8
1 .0 .0 .0 .2.9 3.4 .5 15 .0 7.3 .0 0.0 .0 .0 .6.3 4.4 .5 23 .0 11.2 .1 .0 .0 1.0 9.8 2.9 .0 28 .5 13.2 .2 .0 0.0 1.5 8.8 2.4 .0 26 1.0 11.7 .3 .0 .0 3.4 6.3 1.5 .0 23 .5 10.7 .4 .0 .0 5.9 3.4 1.5 .0 22 .5 10.2 .5 .0 .5 .9 .5 .9 .5 .0 .2 .5 .0 .7 .8
1 .0 .0 .0 .2.9 3.9 .5 15 .0 7.3 0 .0 .0 .0 .0 .6.3 4.4 .5 23 .0 11.2 -1 .0 .0 1.0 9.8 2.9 .0 28 .5 13.2 -2 .0 .0 15.8 8.2 .4 .0 26 1.0 11.7 -3 .0 .0 3.4 6.3 1.5 .0 23 .5 10.7 -4 .0 .0 5.9 3.4 1.5 .0 22 .5 10.2 -5 .0 .5 .4 9 2.0 .5 .0 16 .0 7.8
1 .0 .0 .0 .0 2.9 3.9 .5 15 .0 7.3 .0 0 .0 .0 .0 .6.3 4.4 .5 23 .0 11.2 .1 .0 .0 1.0 9.8 2.9 .0 28 .5 13.2 .2 .0 .0 1.5 8.8 2.4 .0 26 1.0 11.7 .3 .0 .0 3.4 6.3 1.5 .0 23 .5 10.7 .4 .0 .0 5.9 3.4 1.5 .0 22 .5 10.2 .5 .0 .5 4.9 2.0 .5 .0 16 .0 7.8
1 .0 .0 .0 .0 .2.9 3.9 .5 15 .0 7.3 .0 0 .0 .0 .0 .6.3 4.4 .5 23 .0 11.2 .1 .0 .0 1.0 9.8 2.9 .0 28 .5 13.2 .2 .0 0 .0 1.5 8.8 2.4 .0 26 1.0 11.7 .3 .0 .0 3.4 6.3 1.5 .0 23 .5 10.7 .4 .0 .0 5.9 3.4 1.5 .0 22 .5 10.2 .5 .0 .5 4.9 2.0 .5 .0 16 .0 7.8
0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
-1 .0 .0 1.0 9.8 2.9 .0 28 .5 13,2 -2 .0 .0 1.5 8.8 2.4 .0 26 1.0 11.7 -3 .0 .0 3.4 6.3 1.5 .0 23 .5 10.7 -4 .0 .0 5.9 3.4 1.5 .0 22 .5 10.2 -5 .0 .5 4.9 2.0 .5 .0 16 .0 7.8
-4 .0 .0 5.9 3.4 1.5 .0 22 .5 10.2 -5 .0 .5 4.9 2.0 .5 .0 16 .0 7.8
-4 .0 .0 5.9 3.4 1.5 .0 22 .5 10.2 -5 .0 .5 4.9 2.0 .5 .0 16 .0 7.8
-4 .0 .0 5.9 3.4 1.5 .0 22 .5 10.2 -5 .0 .5 4.9 2.0 .5 .0 16 .0 7.8
-5 .0 .5 4.9 2.0 .5 .0 16 .0 7.8
-6 .0 .5 1.9 .5 .0 .0 10 0 4.9
·7/-8 .0 2.4 1.5 .5 .0 .0 9 .0 4.4
-9/-10 .0 .0 .5 .0 .0 .0 1 .0 .5
1/-13 .5 .0 .5 .0 .0 .0 2 .0 1.0
OTAL 1 47 54 5 200
7 87 9 205
PCT .5 3.4 22.9 42.4 26.3 4.4 100.0 2.4 97.6

PERIOD: (DVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) 34-47 HGT
<1
1-2
3-4
5-6
7
8-9
10-11
12
13-16
17-19
223-25
26-32
33-40
41-48
49-60
61-70
71-86
71-86 1-3 1-3 34-47 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 23-25 24-32 34-48 49-60 61-70 71-86 87-70 71-86 34-47 1-3 11-21 1-3

PERIODI	(OVE	R-ALL)	1963-1	975					-	ULY				AREA		VALDIVI	
								TABLE	18	CONT	1				40	.35 74	.5W
				PC	T FREQ D	F WIND	SPEED	(KTS)	AND	DIREC	TION	ERSUS S	EA HEIG	HTS (FT	,		
				s									22-33				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21		34-47	48+		
1-2	.0	2.6	:7	.0	.0	.0	3.4			.0	.5	.0	.0	.0	.0		
3-4	.0	3.1	2.2	.0	.0	.0	5,3			.0	1.7	.7	.0	.0	.0	2.4	
5-6	.0	.0	1.0	.0	.0	.0	1.0			.0	1.0	. 2	1.0	. 0	.0		
7	.0	.0	.0	.0	.0	.0	.0			.0	.2	1.2	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	1.7	.0	.0	1.7			.0	.0	.2	.5	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0000	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	•0	.0		
33-40	.0	.0	.0	.0	:0	.0	.0			.0	.0	.0	.0	000	.0		
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
61-70	.0	.0	. 0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
TOT PCT	.0	5.8	3.8	1.7	.0	.0	11.3			•0	4.6	2.4	1.4	.0	.0	8.4	
													NW				TOTAL
HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+		PCT
<1	.0	1.7	.0	.0	.0	.0	1.7			.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.7	2.9	.0	.0	.0	1.7			1.0	1.0	.0	.0	:0	.0	3.6	
5-6	.0	1.0	3.1	.0	.0	.0	4.1			.0	1.0	3.6	1.0	1.0	.0	8.4	
7	.0	2.4	1.7	.7	.0	.0	4,8			.0	2	.0	.2	0	.0		
8-9	.0	.0	. 7	2.9	.0	.0	3,6			.0	.0	1.2	5.8	:0	.0		
10-11	.0	.0	.7	4.1	.0	.0	4.8			.0	.0	.0	1.4	.0	.0		
12	.0	.0	• 0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	1.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0		
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0		
23-25	.0	.0	.0	•0	.0	.0	.0			.0	.0	•0	.0	.0	.0		
26-32 33-40	.0		.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0		
71-86	.0	0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
TOT PCT	.0	8.7	9.1	7.7	.0	.0	25.5			1.0	2.2	10.3	9.4	1.0	.0		99.0

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.8	2,8	.0	.0	.0	.0	6.6	563
1-2	1.9	11.3	1.9	.0	.0	.0	15.1	
3-4	.0	11.3	9.4	.0	.0	.0	8.05	
5-6	.0	2.8	12.3	6.6	.9	.0	22.6	
7	.0	2.8	3.8	2,8	.0	.0	9.4	
8-9	.0	.0	1.9	8.5	.0	.0	10.4	
10-11	.0	.0	. 9	11.3	.0	.0	12.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.9	.0	.0	1.9	
17-19	.0	.0	.0	.9	.0	.0	. 9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
		••		••				106
TOT PCT	5.7	31.1	30.2	32.1	.9	.0	100.0	

PERIOD	11 (0)	ER-ALL)	195	2-1976					TABLE	19											
					PERCENT	FRE	QUENCY	0F WA	VE HEI	GHT (F	T) VS	WAVE P	ERIOD	SECON	DS)						
PERIOD (SEC)	<1	1+2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
< 6	1.1	4.9	3.8	1.6	.5	1.6	.5	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	• 5
6-7	.0	1.6	2.7	8.7	3.8	2.7	2.7	2.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	7
8-9	.0	1.1	1.1	6.5	8.7	2.2	2.2	1.6		2.7	1.1		.0	.0	.0	.0	.0	.0	.0	51	8
10-11	.0	.0	1.1	1.6	1.6	4.9	5.4	1.1	1.1	1.1	4.9	.0	.0	.0	.0	.0	.0	.0	.0	42	11
12-13	.0	.0	.5	.0	.5	1.1	1.1	.5	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	9	11
>13	.0	.0	.0	.5	.0	1.1	.0		.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
>13 INDET	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	0	•
TOTAL	2	14	17	35	28	25	22	14	6	8	12	1	0	0	0	0	0	0	0	184	8
PCT	1.1	7.6	9.2	19.0	15.2	13.6	12.0	7.6	3.3	4.3	6.5	. 5	.0	.0	.0	.0	.0	.0	.0	100.0	

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0

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PERIOD:	(PRIMARY)	

AREA 0027 VALDIVIA 40.4\$ 74.5W

PERCENT FREQUENCY	OF	WEATHER	DECURRENCE	RV	WIND	DIRECTION

					EKCEN	PREQU	ENCY C	P WEATHER	DCCURRENCE	BY W	ND DIR	ECTION			
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	22.9	.0	3.4	.0	.0	.0	.0	26.3	2.5	.0	11.9	.0	.0	.0	59.3
NE	28.6	.0	28.6	.0	.0	.0	.0	57.1	7.1	.0	.0	.0	.0	.0	35.7
E	50.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0	50.0
SE	8.3	8.3	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
5	.0	4.5	.0	.0	.0	.0	.0	2.5	4.3	.0	4.9	.0	.0		88.3
SW	4.1	1.0	.0	.0	.0	.0	.0	5.1	5.1	1.0	.0	.0	.0	.0	88.8
W	.0	3.0	.0	.0	.0	.0	.0	3.0	4.0	3.0	.0	.0	.0	.0	90.1
NW	10.9	.0	6.7	.0	.0	.0	.0	17.6	10.1	.0	5.0	.0	3.4		63.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	80.0
TOT PCT	8.1	1.7	2.3	.0	.0	.0	.0	12.2	4.7	.6	4.7	•0	.6	.0	77.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN			HAIL	PCPN AT OB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		NO SIG WEA
00603 06609 12615 18621	8.7 6.7 12.2 4.9	2.2 2.4 2.4	2.2 4.9 2.4	.0	.0	.0	.0	8.7 11.1 19.5 9.8	2.2 6.7 4.9	2.2	4.3 2.2 4.9 7.3	•0	.0	.0	84.8 77.8 70.7 75.6
TOT PCT	8.1	1.7	2.3	.0	.0	•0	.0	12.1	4.6	.6	4.6	•0	.6	.0	77.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

					77.												
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	PCT	SPD	00	03	06	HDUR 09	(GMT)	15	18	21
N	.8	4.1	5.2					14.6	17.0	14.4					.0	16.7	
NE	.5	2.1	.9	.3	• 1			3.9	10.7	2,5	.0	3.8			.0	3.5	2.5
E	.4	1.8	.9	.2		.0		3.4	9.9	3.0	.0	4.2	4.4	2.7	33.3	3.1	2.5
SE	.4	2.4	2.2	.7	.1	.0		5.9	12.8	5.0	.0	6.0	5.3	9.0	.0	5.3	4.9
S	1.4	6.6		1.7	.4	.1		17.2	12.7	22,3	.0	17.0	13.6	16.4	33.3	15.9	18.1
SW	. 3	3.9	4.3		1.1	. 2		12.4	17.5	13.3	.0	11.8	10.9	11.6	.0	12.8	15.0
W	.7	5.2		4.1	1,3	.1		17.9	17.0	18.9	.0					17.5	19.0
NW	.9	5.2			1.5	.2		22.4	17.9	18.9	50.0	21.1	24.4			24.5	22.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.3							2.3	.0	1.7	.0	3.3	3.4	1,8	.0	. 9	3.3
TOT OBS	161	665	763	391	128	13	2121		15.4	357	2	368	327	339	3	456	
TOT PCT	7.6	31.4	36.0	18.4	6.0	. 6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WNO DIR	0=6	7=16	SPEED 17-27		41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15		
N	2.6	3.5	3.6	2.3	:6		14.6	17.0	14.6	14.5	14.0	15.0	
	1.3	1.5	,5		.0		3.4	9.9	3.0	4.3	3.0	2.9	
SE	1.3	2.8	1.4	.3			5.9	12.8	5.0	5.7	8.9	5.1	
5	4.0	8.1	4,3	.6	:2		17.2	12.7	22.2	15.4	16.5	16.7	
SW	2.0	4.3	3,9	1.5			12.4	17.5	13.2	11.3	11.5	13.6	
W	2.5	7.3	5.0	2.5	.6		17.9	17.0	18.8	18.0	16.2	18.1	
NW	2.6	8.4	6,9	3.7	.7		22.4	17.9	19.1	22.6	22.6	23.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.3		200	-			2,3	.0	1.7	3.3	1.8	1.8	
TOT OBS	429	841	555	234	62	2121		15.4	359	695	342	725	
TOT PCT	20.2	39.7	26,2	11.0	2.9		100.0		100.0	100.0	100.0	100.0	

IG	12	P

PERIOD:	(PRIMARY)	1906-1977
	(DVER-ALL)	

AREA 0027 VALDIVIA 40.45 74.5W

PERCENTAGE	ERECHENCY	20	HIND	CDEED	RV	HITTIE	CONTI

HOUR	CALM	1-3	4-10	#IND	SPEED (KNOTS) 34-47	48+	MEAN	PCT	TOTAL
60300	1.7	6.1	33.1	38.4	13.6	6.1	.8	14.8	100.0	359
90300	3.3	5.9	33.1	33.7	17.8	3.9	.3	14.9	100.0	695
12615	1.8	3.2	29.2	37.1	22.8	5.6	.3	16.1	100.0	342
18421	1.8	5.4	29.8	36.4	19.3	4.3	1.0	15.9	100.0	725
TOT	46	113	605	763	391	128	13	15.4		2121
PCT	2.3	5.3	31.4	36.0	18.4	6.0	. 6		100.0	

P	CT FRE			LOUD A		EIGHTHS			PERCEN	TAGE F	REQUEN	CY OF	CEILIN	G HEIG	HTS (T,NH	>4/8) DN	
WND DIR	0=2	3-4	5-7	8 & 085CD	TOTAL DBS	MEAN CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000	6500 7999	8000+	NH <5/8 ANY HGT	
N	.6	.7	2.1	14.2		7,2	2.2	.0	1.1	2.2	5.8	1.3	.6	.0	.0	.0	4.3	
NE	.2	.0	.7	.7		5.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	. 9	
E	.7	.0	.7	.0		3.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
SE	.9	3.2	1.1	1.5		4.4	.0	.0	.0	.4	2.2	.0	.0	.0	.0	.0	4.1	
S	3.4	3.5	10.4	4.1		5.2	.0	.0	.7	1.9	3.7	5.0	.6	.0	.0	.0	9.5	
SW	2.6	4.5	5.8	1.9		4.7	.0	.0	.0	.2	. 7	3,2	. 9	.0	.0	.0	9.7	
W	4.5	1.7	5.2	5.2		5,3	.0	.0	.7	3.9	1.5	2.2	. 9	.0	.0	.0	7.3	
NW	2.1	.6	6.7	7.5		6.2	1.5	.7	1.1	1.1	3,2	3.2	1.5	.0	.0	.0	4.5	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	2.2	.0	.7		5.0	.0	.0	.0	.0	. 7	.0	.0	.0	.0	.0	2.2	
TOT 085	20	22	44	48	134	5,6		1	• •	13	26	20	6	0	0	.0	58	134
TOT PCT	14.9	16.4	32.8	35.8	100.0		3.7	.7	3.7	9.7	19.4	14.9	4.5	.0	.0	.0	43.3	100.0

TABLE 7

CUMULATIVE PCT FREQ	OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT	(NH >4/8) AND VSBY (NM)

				VSBY (NM)			
CEILING	• OR	- OR	· DR	- OR	• DR	- DR	· OR	= DR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
- OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.0	.0	:0	.0	.0	.0	.0	.0
OR >3500	. 7	3.7	4.5	4.5	4.5	4.5	4.5	4.5
OR >2000	11.2	17.2	18.7	18.7	18.7	18.7	18.7	18.7
OR >1000	26.1	36.6	38.8	38.8	38.8	38.8	38.8	38.8
DH >600	32.8	46.3	48.5	48.5	48.5	48.5	48,5	48.5
OR >300	33.6	48.5	52.2	52.2	52.2	52.2	52.2	52.2
OR >150	33.6	48.5	53.0	53.0	53.0	53.0	53.0	53.0
1R > 0	33.6	50.0	56.7	56.7	56.7	56.7	56.7	56.7
TOTAL	45	67	76	76	76	76	76	76

TOTAL NUMBER OF DBS: 134 PCT FREQ NH 45/8: 43.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	OBS	
3.9	5,9	12.4	9,8	7.8	10.5	10.5	10.5	26.8	2.0	153	

AUGUST

								A	10021					
PERIOD: (PRIMARY (OVER-AL		906-1977 867-1977						7.4	ALE 8				ARE	40.45 74.
			P	ERCENT	PREC	OF WIN	ION WI	CTION TH VAR	VS DC	URRENC	E OR N	181L1	CURRENC	E OF
	SBY NM)		N	NE	•	St	s	Sw	*	NW	VAR	CALM	PCT	TOTAL
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<	1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		TOT &	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1	1241	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
		107 %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.	<2	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
		TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
		PCP	.0	.6	.0	.0	.0	.0	.0	2.3	.0	.0	2.9	
2.	<5	NO PCP	1.0	.0	.0	.0	. 6	.0	.6	.7	.0	.0	2.9	
		* 707	1.0	.6	.0	.0	. 6	.0	. 6	3.1	.0	.0	5,8	
		PCP	3.9	.6	.6	.0	.6	.6	.0	.7	.0	.0	7.0	
5.	<10	NO PCP	2.6	. 1	.0	. 3	4.4	2.5	2,2	4.2	.0	.6	16.9	
		TOT \$	6.5	.7	.6	.3	4.9	3.1	2.2	4.9	.0	.6	23.8	
		PCP	.6	.0	.0	1,2	.0	.1	.4	.0	.0	.0	2.3	
10	0+	NO PCP	8.4	.7	.6	5.5	18.0	11.0	11.5	9.3	.0	1.7	66.9	
		TOT %	9.0	.7	.6	6.7	18.0	11.2	11.9	9.3	.0	1.7	69,2	
		TOT 085												172
		TOT PCT	17.2	2.0	1.2	7.0	23,5	14.2	14.7	17.3	.0	2.9	100.0	

				PERCEN	T FREG	ARYING	VALUE	S OF	ISTBIL	ND SPE ITY	ED			
VSBY (NM)	SPD	N	NE	Ε	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT *	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4		
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT %	.0	•0	.0	.0	.0	.0	.0	.0	.0	.4	.4		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	11-21	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT %	-4	•0	.0	.0	.0	.0	.0	.0	.0	.0	.4		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2<5	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0		.4		
	11-21	.7	.0	.0	.0	.0	.0	.4	.5	.0		1.7		
	22+	1.3	.4	.0	.0	.4	.0	.4	1.7	.0		4.2		
	TOT \$	2.0	• 4	.0	.0	.4	.0	1.3	2.2	.0	.0	6.4		
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.4	.4		
5<10	4-10	.4	.0	.0	.0	. 8	.0	. 8	. 8	.0		3.0		
	11-21	2.2	.6	.4	.1	2.9	1.4	1.6	1.4	.0		10.6		
	22+	2.3	. 1	.0	.1	. 3	. 8	.4	1.4	.0		5.5		
	TOT \$	5.0	• 7	.4	.2	4.0	2.2	2.9	3.6	.0	.4	19.5		
	0-3	.2	.2	.0	.4	.4	.2	.6	.0	.0	1.7	2.8		
10+	4-10	2.4	1.6	.2	2.8	4.9	7.1	6.0	4.2	.0		29.2		
	11-21	3.9	. 8	.4	2.5	10.0	3.8	6.7	3.7	.0		33.9		
	224	2.3	.2	.0	.4	. 8	.4	1.5	.6	.0		6.4		
	TOT %	8.9	2.9	.6	6.1	16.1	11.5	14.8	10.6	.0	1.7	73.3		
	10T UBS												236	
1	INT PET	16.3	4.0	1.1	6.4	20.6	13.8	19.0	16.4	.0	2.5	100.0		

A			

PERIOD:	(PRIMARY)	

AREA 0027 VALDIVIA 40.45 74.5W

PERCENT	FREQUENCY	DF CE	IL ING	HEIGHTS	(FEET, NH	>4/8)	AND
---------	-----------	-------	--------	---------	-----------	-------	-----

HOUR (GMT)	000	150	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL	
00603	2.7	.0	•0	10.8	21.6	10.8	8.1	.0	.0	.0	54.1	45.9	37	
90380	2.9	.0	5.9	.0	20.6	14.7	.0	.0	.0	.0	44.1	55.9	34	
12615	5.7	2.9	5.7	14.3	17.1	17.1	5.7	.0	.0	.0	68.6	31.4	35	
18621	3.1	.0	3.1	12.5	18.8	15.6	3.1	.0	.0	.0	56.3	43,8	32	
TOT	3.6	.7	3.6	13	19.6	20	4.3	.0	.0	.0	55.8	44.2	138	

TABLE 11

TABLE 12

		PERCENT	FREQUEN	Y VS8Y	(NM)	BY HOUR		CUMULATIVE PCT FREG OF RANGES OF VSBY (NM) AND/ CEILING HGT (FEET/NM >4/8),BY HOUR	OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HGUR <150 <600 <1000 1000+ NH <5/8 TOTA (GMT) <50YD <1 <5 AND5+ AND 5+ DBS	
00603	•0	.0	.0	3.8	18.9	77.4	53	00803 2.8 2.8 16.7 38.9 44.4 3	6
06609	.0	.0	.0	7.9	19.7	72.4	76	06809 2,9 8.8 11.8 32,4 55.9	14
12615	.0	.0	.0	5.8	28,8	65.4	52	12815 6.1 15.2 30.3 39.4 30.3 3	13
18621	•0	1.8	1.8	7.1	10.7	78.6	56	18821 3,2 6.5 22.6 35,5 41.9	1
TOT PCT	.0	.4	.4	6.3	19.4	73.4	237	TOT 5 11 27 49 58 12 PCT 3.7 8.2 20.1 36.6 43.3 100.	

TABLE 14

	PERCE	NT FR	EQUENC	Y UF RE	LATIV	HUMI	DITY B	Y TEMP	TOTAL	PET		PERC	ENT FR	EQUEN	Y OF W	IND DI	RECTIO	N BY TE	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64 55/59	.0	.0	•0	.6	.0	.0	.0	.0	1	.6	.6	.0	.0	.0	.0	.0	.0	-0	.0	.0
	.0	.0	.0	.6	1.2	1.2	3.6	. 6	12	7.2	1.6	.0	.0	.6	1.8	.7	.4	1.9	.0	.0
50/54	.0	.0	.6	1.8	6.0	12.6	16.2	12.0	82		12.4	.6	.6	1.2	7.2	6,3	8.2	10.8	.0	1.8
45/49	.0	.0	.6		6.0	10.8	16.2	4.2	70		1.5	. 9	.6	3.7	14.8	6.9	7.3	5.5	.0	.6
40/44	.0	.0	.0	.0	.6	.0	.6	.0	2	1.2	.0	.0	.0	.0	.6	.0	.4	-1	.0	.0
TOTAL	0	0	2	12	23	41	61	28	167	100.0		• •	•			•		••	•••	•••
PCT	.0	.0	1.2	7.2	13.8	24.6	36.5	16.8			16.2	1.5	1.2	5.5	24.4	13.9	16.5	18.4	.0	2.4

TABLE 15

	means,	EVIKEU	E2 AND	PERCEN	LILES	UF 1E	mp (DE	G P) B	Y HOUR		PERC	ENT PRE	QUENCY	UF RELA	I I VE H	UMIDITY	BY HUU	R
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	HOUR (GHT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00603	59	56	54	49	45	41	39	49.0	354	60803	.0	-0	18.8	25.0	39.6	16.7	81	48
06809	57	55	53	49	44	41	38	48.8	694	06809	.0	7.1	7.1	33.3	35.7	16.7	80	42
12815	57	55	54	49	45	41	41	49.2	341	12815	.0	11.6	7.0	20.9	37.2	23.3	80	43
18821	60	57	55	50	46	43	41	50.4	693	18621	.0	17.1	22.9	17.1	31.4	11.4	75	35
TOT	60	56	54	50	45	41	38	49.5	2082	TOT	0	14	23	41	61	29	79	168

AUGUST '

PERIOD: (PRIMARY) 1906-1977 (QVER-ALL) 1867-1977

TABLE 17

AREA 0027 VALDIVIA 40.45 74.5W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)

42	AIK	SEA	CHPE	MAIUNE	Die	EXEMPE	(DEG F)		
AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	TOT	FOG	FOG
9/10	.0	.0	.0	.0	.6	.6	2	.6	.6
7/8	.0	.0	.0	.0	.0	.6	1	.0	.6
5	.0	.0	.0	.0	2.5	1,3	6	.6	3.1
4	.0	.0	.6	.0	1.9	.0	4	.6	1.9
3	.0	.0	.0	.6	. 0	.0	2	.0	1.3
2	.0	.0	.0	3.8	5.0	.6	6 4 2 15	1.3	8.2
1	.0	.0	.6	2.5	1.9	.6	9	.0	5.7
0	.0	.0	.6	6.9	2.5	.0	16	1.3	8.8
-1	.0	.0	.6	6.3	2.5	.0	15	.0	9.4
-2	.0	.0	1.3	10.7	.0	.0	19	.0	11.9
-3	.0	.0	4.4	8.2	.6	.0	21	.0	13.2
-4	.0	.0	5.7	3.8	.0	.0	15	.0	9.4
-5	.0	.6	6.9	4.4	.6	.0	20	.0	12.6
-6	.0	.0	1.9	.6	.0	.0	4	.0	2,5
-7/-8	.0	1.3	3.8	.0	.0	.0	8	.0	5.0
-9/-10	.0	.0	. 6	.0	.0	.0	1	.0	. 6
-14/-16	.6	.0	.0	.0	30	.0	1	.0	.6
TOTAL	1		43		30			7	152
	117	3		76		6	159		
PCT	.6	1.9	27.0	47.8	18.9	3,8	100.0	4.4	95.6

21 (D"ER-ALL) 1963-1977

				PC	T FREQ	-	SPEED	(KTS)	AND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0		2.4		.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	1.2	.0	.0	.0	2.4		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
3-4	.0	1.8	3.4	.0	.0	.0	5,2		.0	.3	1.2	.0	.0	.0	1.5
5-5	.0	1.2	2.4	.0	.0	.0	3.7		.0	1.2	.0	1.2	.0	.0	2.4
7	.0	.0	.0	1.2	.0		1,2		.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000
8-9	.0	.0	.0	2.4	.0		2.4		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0		.0		,0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32 33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	.0 .0	.0	1.2	.0	.0	.0
TOT PCT	.0	4.3	7.0	3.7	.0	•0	14.9		.0	1.5	1.2	1.2	.0	.0	4.0
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.3	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	2.4		.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	2.4	.0	.0	.0	2.4		.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.2	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	1,2	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	,0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25 26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0		000000000000000000000000000000000000000		.00		.0	.0	000000000000000000000000000000000000000	.0	.3 1.5 .3 .0 1.0 .0 .0 .0 .0 .0 .0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
B7+ TOT PCT	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.4	.0	.0	.0	2,4		.0	.6	1.5	1.5	.0	.0	3.7

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	CTION	VERSUS S	SEA HEIG	HTS (FT)			
				5								SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	484	PCT	
<1	.0	2.1	.0	.0	.0	.0	2.1		.0	.0		.0	.0	.0	.0	
1-2	.0	1.8	.9	.0	.0	.0	2.7		.0	2.7	. 3	.0	.0	.0	3.0	
3-4	.0	.0	8.2	.0	.0	.0	8.2		.0	6.1		1.2	.0	.0	10.4	
5-6	.0	1.2	2.1	2.1	.0	.0	5.5		.0	3.7		1.2	.0	.0	6.4	
7	.0	.0	4.3	2.4	.0	.0	6.7		.0	.0		.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	1.2	
10-11	.0	.0	1.2	.0	.0	.0	1.2		.0	. 3		.0	.0	.0	. 3	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	. 0	.0	.0	
13-16	.0	.0	.0	•0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	:0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0	
TOT PCT	.0	5,2	16.8	4.6	.0	.0	26.5		.0	12.8	6.7	2.4	.0	.0	22.0	
				w								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10		22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
1-2	.0	2.4	1.2	.0	.0	.0	3.1		.0	.0		.0	. 0	.0	.0	
3-4	.0	.0	2.7	.0	.0	.0	2.7		.0	1.5		1.2	• 0	.0	5.8	
5-6	.0	.0	4.6	.0	.0	.0	4.6		.0	.0		1.2	• 0	.0	2.7	
7	.0	.0	.0	1.2	.0	.0	1.2		.0	.0		.0	0	.0	.0	
8-9	.0	.0	.0	1.2	.0	.0	1.2		.0	.0		.0	•0	.0	.0	
10-11	.0	.9	• ?	.0	.0	.0	, 9		•0	.0		1.2	0	.0	2.4	
13-16	.0	.0	.0		.0	.0	.0		.0	.0		.0	• 0	.0	.0	
17-19	.0	.0	.0		.0	.0	1,2		.0	.0		.0	•0	.0	.0	
	.0	.0	.0		.0	.0	.0		.0	.0		.0	.0	.0	.0	
20-22	.0	.0	.0		.0	.0	.0		.0	.0		.0	• 0	.0	.0	
23-25	.0	.0	.0		.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0		.0	.0	.0		.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0		.0	.0	.0		.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0		.0	.0	.0		.0	.0		.0	0	.0	.0	
49-60	.0	.0	.0		.0	.0	.0		.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0		.0	.0	.0		.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	• 0	.0	.0	0		.0	0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.4	8.5	3.7	.0	.0	15.5		.0	1.5	5.8	3.7	.0	.0	11.0	100.0

	MIND	SPEFD	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT 085
<1	.0	2.4	.0	.0	.0	.0	2.4	003
1-2	.0	8.5	3.7	.0	.0	.0	12.2	
3-4	.0	9.8	25.6	2.4	.0	.0	37.8	
5-6	.0	7.3	12.2	6.1	.0	.0	25.6	
7	.0	.0	4.9	4,9	.0	.0	9.8	
8-9	.0	.0	1.2	4.9	.0	.0	6.1	
10-11	.0	1,2	2.4	1.2	.0	.0	4.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.2	.0	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	• 0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								82
TOT PCT	.0	29.3	50.0	20.7	.0	.0	100.0	

PER IOD:	(DV	ER-ALL)	195	2-1977					TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HEI	GHT (F	T) VS	WAVE P	ERIDO	(SECON	(2)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20=22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	.0	1.6	6.2	7.6	3.1	2.3	. 8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
6-7	.0	.0	3.1	8.5	12.4	3.9	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	. 6
8-9	.0	.0	1.6	1.6	8.5	3.9	4.7	.0	2.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	8
10-11	.0	.0	.0	3.1	1.6	1.6	1.6	.8	. 8	. 8	.0		.0	.0	.0	.0	.0	.0	.0	13	8
12-13	.0	.0	. 8	2.3	1.6	. 8	1.6	. 8	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	9
>13	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	2	15
INDET	.0	.8	.0	.0	.0	.0	. 8	•0		.0	.0		.0	.0	.0	.0	.0	.0	.0	2	6
TOTAL	0	3	15	30	35	16	15	2	11	2	0	0	0	0	0	0	0	0	0	129	7
PCT	.0	2.3	11.6	23.3	27.1	12.4	11.6	1.6	8.5	1.6	-0	- 0	- 0	- 0	-0	- 0	-0	-0	-0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1906-1977 (DVER-ALL) 1864-1977

TABLE 1

AREA 0027 VALDIVIA 40.35 74.6W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTIO							
	NO DIRECTION	RY WIND	CCURRENCE	WEATHER	OF	FREQUENCY	PERCENT

					EWACH	. KERG	Euc .	ACMINE	DOCONNENCE		IND DIE	ECITON			
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE		
N	28.3	6.3	13.4	.0	.0	.0	.0	48.0	2.4	.0	4.7	.0	.0	.0	44.9
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	23.5	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0	.0	.0		76.5
S E	.0	4.9	.0	.0	.0	.0	.0	4.9	.0	.0	4.9	.0	.0	.0	90.1
S	.0	2.1	.0	.0	.0	.0	.0	2.1	4.2	.0	4.2	.0	.0		89.6
SW	2.5	5.1	2.5	.0	.0	.0	.0	10.2	2.5	.0	.0	.0	.0		87.3
W	5.0	3.3	.0	.0	.0	.0	.0	8,3	9.9	.0	.0	.0	.0		81.8
NW	20.4	4.8	9.0	.0	.0	.0	.0	34.1	3.0	.0	3.6	.0	.0	.0	59.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0
TOT PCT TOT DBS:	9.6	4.1	4.1	.0	•0	•0	.0	17.9	3.7	.0	3.2	•0	.0	.0	75.2

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	JIAH	PCPN AT OB TIME	PCPN PAST	THDR	FOG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603 06609 12615 18621	10.5 15.0 5.8 8.8	1.8 3.3 7.7 3.5	3.5 3.3 3.8 5.3	.0	.0	.0	.0	15.8 21.7 17.3 17.5	3.5 1.7 3.6 5.3	.0	1.8 5.0 3.8 5.3	.0	.0	.0	78.9 71.7 75.0 71.9
TOT PCT	10.2	4.0	4.0	.0	.0	.0	.0	18.1	3.5	.0	4.0	.0	.0	.0	74,3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WIN	D SPE	ED (KN	TS)								HOUR	(GMT)			
WND DIR	0-3			22-33		48+	TOTAL	PCT	MEAN SPD	00	03	06	09	12	15	18	21
N NE	1.0	5.2	5.5		.8	.1		15.0	14.6	15.8	43.8	13.0	14.6		10.7	16.2	
E	.3	1.3	.6	.2	• 1	.0		2.8	10.3	2.1	.0	3.8	3,8	3,3	3.6	3.1	1.1
SE	.4	4.2	4.0		.1	.0		9.3	12.3	7.6	.0	10.5	11.5	12.0	14.3	7.4	7.8
5-	.9	6.6	8.1	1.8	ii	.0		17.4	12.5	20.1	.0	16.6	15.9	16.6	.0	17.1	19.5
SW	.6	5,8	4.3		. 7	.1		13.2	14.2	13.8	.0	13.7	11.8	12.2	14.3	12.4	16.5
W	.5	5.7	5.0		1.0	.1		15.6	16.1	13.8	25.0	14.7	16.1	16.7	21.4	15.9	16.5
NW	1.3	7.6	7.8		.6	. 4		21.8	15.0	24.1	31.3	22.7	18.9	18.3	35.7	22.8	22.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0	1.6	.0	1.8	3,5	3,3	.0	2.1	. 8
TOT DBS	149	740	707	277	69	14	1956		13.8	309	4	332	285	299	7	471	249
TOT PCT	7.6	37.8	36.1	14.2	3,5	.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

FARLE 34

WND DIR	0-6	7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00	HDU1 06 09	12 15	18 21
N NE	3.7	3.6	3.8	1.4	. 4		15.0	14.6	16.1	13.8	14.2	15.8
•	1.0	1.3	;3	.1	.0		2.7	10.3	2.1	3.5	3.1	2.1
SE	1.9	4.7	2.4		.0		9,3	12.3	7.5	10.9	12.1	7.6
	3.2	9.8	4.0	.5	.0		17.4	12.5	19.8	16.2	16.3	17.9
SW	3.0	5.7	3,2	1.0	.4		13,2	14.2	13.7	12.8	12.3	13.8
W	3.0	5.5	5,0	1.8	.4		15.6	16.1	13.9	15.4	16.8	16.1
NW	4.1	9.4	6,3	1.5	.5		21.8	15.0	24.2	20.9	18.7	22.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	1.6	2.6	3.3	1.7
TOT DBS	452	841	494	134	35	1956		13.8	313	617	306	720
TOT PCT	23.1	43.0	25.3	4.0	1.8		100.0		100.0	100.0	100-0	100-0

SE	DT	E	48	£	R

							SEPTEMBE	: K					
PERIOD: (PRIMARY) (DVER-ALL)	1906-197 1864-197						TABLE 4				AREA	VALDS	74.6W
			PER	CENTAGE	FREQUE	INCY OF	WIND SP	EED BY	HOUR	(GMT)			
	HOUR	CALM	1-3	4-10			(KNOTS) 34-47	48+	MEAN	PCT	TOTAL		
	00803 06609 12615 18621 TUT PCT	1.6 2.6 3.3 1.7 43 2.2	5.1 6.2 3.9 5.6 106 5.4	39.3 38.2 39.9 36.0 740 37.8	36.4 36.5 34.0 36.7 707 36.1	13.4 12.0 15.7 15.7 277 14.2	3.6 3.3 3.6	1.0 .0 .8 14	13.5	100.0 100.0 100.0 100.0	313 617 306 720 1956		

			Т,	ARLE 5								T	ABLE 6					
	PCT FRE			CLOUD A		(EIGHTHS)							CEILIN NH <5/					
WND DIR	0-2	3-4	5-7	08500	TOTAL		149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N	.6	.5	3.0	6.7		6.8	.0	.9	1.4	2.1	1.4	1.4	.6	.0	.6	.0	2.4	
NE	.0	. 2	•0	.2		5,5	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
•	.9	1.1	.0	.0		1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
SE	4.4	.3	2.1	1.2		3.0	.0	.0	.0	.6	1.8	.0	.0	.6	.0	.0	5.0	
S	8.4	8.7	8.8	1.5		3.7	.6	.0	.0	1.5	6.1	.0	.0	.0	.0	.0	19.2	
SW	1.5	4.3	7.5	3.4		5,2	.0	.0	1.2	2.3	1.5	2.1	.0	.0	.0	.0		
W	2.9	2.7	5.3	2.4		4.8	.0	.0	.6	2.3	2.7	.3	.0	.0	.0	.0		
NW	1.4	1.8	2.4			6,9	.6	1.5	3,5	5.2	. 9	2.9	.0	.0	.0	.6		
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.0	.0	.6		8.0	.0	.0	.0								.0	
TOT OBS	33	32	48	51	164		• 0	4	11	24	24	.0	.0	.0	.0	.0		
TOT PCT	20.1	10 5	20.3	21 1	100.0				4.5	14.4		411	1		1	1	84	164

TOTAL NUMBER OF DBS1 164

					TABLE	7 A				
			ERCENT	AGE FR	EQ OF	LOW CL	DUDS	EIGHT	HS)	
0	1	2	3		5	6	7	8	DBSCD	TOTAL
10.5	6.8	11.1	13.2	10.0	8.4	10,5	7.4	21.6	.5	190

PCT FREQ NH <5/81

51.2

SE	97	FM	8	60

							•						
(DVER-ALL)							TA	BLE 8				ARE	40.35 74.0
		PE	RCENT	PREC	F WIN	D DIRE	CTION TH VAR	VS DCC	URRENC	E DR N	IBILI	URRENC	E OF
VSBY		N	NE	E	SE	s	SW		NW	VAR	CALM	PCT	TOTAL DBS
<1/2		.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1.4	
	TOT %	.2	.0	•0	.0	.0	.0		.5	.0	.0	1.4	
1/2<	TOT %	.0	.0	0	.0	.0	.0	.0	.5	.0	.0	1.4	
	PCP	2.8	.0	.0	•				.9	.0	.0	4.1	
1<2	NO PCP	3.0	.0	.0	.0	.9	.0	.0	1.1	.0	.0	5.5	
2<5	PCP ND PCP	1.1	.0	.0	1.4	.0	1.4	.0	1.6	.0	.0	4.6	
200	TOT &	2,3	:0	.0	1.8	.0	1.8	.0	1.8	:0	.5	8.3	
5<10		1.8	.0	.0	.9	1.8	2.4	3.6	3.4	.0	.0	4.1	
	TOT \$	2,9	.1	•0		1.8	2.4	3,6	5.7	.0	.0	17.4	
10+	PCP NO PCP TOT %	1.0 5.2 6.2	.6	1.5	6.5	18.8 19.3	13.3 13.8	9.2	8.3	.0	.0	63.3	
	TOT OBS	٠,٤	••	,		.,,,		,,,		••	••	00,1	218
		14.6	.7	1.9	9.3	22.0	18.0	13,9	19.2	.0	.5	100.0	

				PERSE	T FREG	DF WI	ND DIE	S OF V	I VS WI	ND SPE	ED		
VSBY (NM)	SPD	N	NE	Ε	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3	
<1/2	4-10	.2	.0	.0	.0	.0	.0	.3	. 2	.0		.7	
	11-21	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	•0	.0	.0	•0	.0	.3	.3	.0	.0	1.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT \$.0	•0	.3	•0	.0	.0	.0	.7	.0	.0	1.0	
	0-3	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	1.0	
1<2	4-10	1.4	.0	.0	.0	.3	.0	.3	.0	.0		2.1	
	11-21	.5	.0	.0	.0	.0	.0	.0	.5	.0		1.0	
	22+	0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$	2.2	•0	.0	.0	.7	.0	.3	.9	.0	.0	4.1	
	0-3	.2	.0	.0	.0	.0	.0	.0	.2	.0	,3	.7	
2<5	4-10	.4	.0	.0	.0	.0	.7	.0	.3	.0		1.4	
	11-21	.3	.0	.0	1.4	.0	.3	.0	.7	.0		2.8	
	22+	1.3	.0	.0	.0	.0	.7	. 3	. 8	.0		3.1	
	TOT \$	2.2	•0	.0	1.4	•0	1.7	.3	1.9	.0	.3	7.9	
	0-3	.3	.1	.0	.2	.2	.3	.0	.0	.0	.7	1.7	
5<10	4-10	.7	.0	.0	.0	.0	1.0	.3	2.8	.0		4.8	
	11-21	2.4	.0	.0	.7	1.4	. 8	1.6	2.1	.0		9.0	
	22+	.2	.0	.0	.0	.0	.0	.9	1.0	.0		2.1	
	107 \$	3.5	.1	.0	.9	1.6	2.2	2.8	5.9	.0	.7	17.6	
	0-3	.3	.0	.3	.4	1.6	.0	.0	.8	.0	2.1	5.5	
10+	4-10	1.8	.1	1.1	6.2	7.5	7.2	4.5	3.0	.0		31.4	
	11-21	2.6	.3	.3	2.3	6.6	5.3	3.8	2.8	.0		24.1	
	224	.7	.0	.0	.4	1.8	1.0	1.6	1.7	.0		7.2	
	TOT \$	5.3	.4	1.8	9.4	17.6	13.4	9.8	8.4	.0	2.1	68.3	
	nT 085												290
1	TOT PET	13.5	.5	2.2	11.6	19.8	17.3	13.9	18.0	.0	3.1	100.0	

SE			

PERIOD: (PRIMARY) 1906-1977 (DVER-ALL) 1864-1977

TABLE 10

AREA 0027 VALDIVIA 40.35 74.6W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOU (GM	R T)	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
300	.03	.0	.0	4.9	22.0	9.8	4.9	.0	.0	.0	.0	41.5	58.5	41
360	.09	2.1	2.1	8.3	6.3	14.6	8.3	.0	.0	.0	.0	41.7	58.3	48
126	15	.0	2.2	6.5	15.2	19.6	8.7	.0	2.2	2.2	.0	56.5	43.5	46
186	21	2.3	4.7	4.7	11.6	9.3	2.3	2.3	.0	.0	2.3	39.5	60.5	43
TO	T	2	. 4	11	12.5	24	11	1	1	1	1	80	98	178

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00803	1.4	.0	5.7	7.1	22.9	62.9	70	00803	.0	5.3	28.9	15.8	55.3	38
90360	2.2	1.1	4.4	6.6	14.3	71.4	91	06809	2,3	14.0	20.9	25.6	53.5	43
12615	.0	1.5	7.7	6.2	9,2	75.4	65	12615	.0	9.5	28.6	35.7	35.7	42
18621	.0	2.7	1.4	11.0	23.3	61.6	73	18621	2.4	12.2	26.8	17.1	56.1	41
PCT	1.0	1.3	4.7	7.7	52 17.4	203	100.0	TOT	1,2	17	26.2	23,8	82 50.0	164

TABLE 13

ABLE 1

						•														
	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY B	Y TEMP				PERC	ENT FR	EQUEN	Y OF W	IND DI	RECTIO	N BY TI	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	s	SW	W	NW	VAR	CALM
60/64 55/59	.0		.0	.0		.0	.0	.0	2	.8	•0	.0	.0	.2	.6	.0	.0	.0	.0	.0
	.0	.0	. 8	. 8	1.6	3,5	3.1	1.2	28	11.0	.7	.0	.3	.2	3.7	2.5	.4	3.2	.0	.0
50/54	.0	.0	.4	.4	5.9	10.6	13.0	14.2	113	44.5	9.1	.1	.4	1.0	6.9	4.3	8.9	13.5	.0	.4
45/49	.0	.0	.4	3.9			13.4	5,9	95	37.4	5.5	.5	.6	5.8	9.0	7.1	5.1	3.8	.0	.0
40/44	.0	.0	.0	.4	.8	2.0	1,6	1,6	16	6.3	.0	.0	. 8	3.1	1.1	.1	.7	.5	.0	.0
TOTAL	0	0	4	14	36	63	79	58	254	100.0		-		-						
PCT	.0	.0	1.6	5.5	14.2	24.8	31.1	22,8	-		15.3	.6	2.1	10.3	21.3	14.0	15.1	21.1	.0	.4

TARLE 15

	MEANS,	EXTREME	S AND	PERCEN	TILES	OF TEM	IP IDE	G F) B	Y HOUR
HOUR (GHT)	MAX	995	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	60	58	55	50	45	43	41	50.2	311
90300	57	55	54	50	45	42	41	49.4	617
12615	58	57	55	50	45	41	41	49.9	297
18821	60	59	57	52	46	45	43	51.6	651
TOT	60	58	55	50	45	43	41	50.4	1876

	PERC	ENI PRE	AOENC.	OF KELA	TAE W	וונטניינ	BY HUUK	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	.0	12.7	15.9	22.2	25.4	23.8	77	63
90300	.0	4.2	8.3	20.8	37.5	29.2	82	72
12615	.0	5.2	13.8	29.3	31.0	20.7	79	58
18821	.0	5.7	17.1	25.7	31.4	20.0	79	70
TOT	0	18	36	64	83	62	79	263

SEPTEMBER

PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1864-1977

TABLE 17

AREA 0027 VALDIVIA 40.35 74.6W

PCT FRFQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

• 3	MIN	-JEM	CHE	MIUNE		WENCE INE	,	
AIR-SEA THP DIF	÷1	45	49 52	53 56	57	TOT	FOG	FOG
IME DIE	**	40	26	20	00		-00	-06
11/13	.0	.0	.0	.0	.5	1	.0	.5
9/10	.0	.0	.0	.0	1.5	3	.0	1.5
7/8	.0	.0	.0	1.5	2.0	3 7	1.5	2.0
5	.0	.0	.5	.5	1.5	5	.0	2.5
5	.0	.0	.0	1.5	3.0	9	.0	4.5
•	.0	.0	.0	1.0	.5	3	.0	1.5
3	.0	.0	.0	2.5	.0	5	.0	2.5
2	.0	. 5	2.0	3.5	.0	12	.0	6.1
0	.0	.0	2.5	2.0	.5	10	.0	5.1
0	.0	.0	7.1	3.0	.0	20	.5	9.6
-1	.0	1.5	7.1	2.0	.0	21	. 5	10.1
-2	.5	5.1	6.1	1.0	.0	25	.0	12.6
-3	.5	2.5	5.6	1.0	.0	19	.5	9.1
-4	.5	6.1	2.5	.0	.0	18	. 5	8.6
-5	.5	6.1	3.5	.0	.0	20	.0	10.1
-6	.5	2.0	2.0	.0	.0	9	.5	4.0
-7/-8	1.5	3.0	.0	.0	.0		.0	4.5
-9/-10	.0	.5	.0	.0	.0	1	.0	.5
-11/-13	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	9		77		19		8	190
		34		39		198		
PCT	4.5	27.3	38.9	19.7	9.6	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1977

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIR	ECTION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.0	.0	.0	.0	1.0		.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.0	.0	.0	.0	1.9		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
3-4	.0	2.6	.0	1.3	.0	.0	3.9		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.9	.0	.0	.0	1,9		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.0	.0	.0	.0	1.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.0	.0	.0	1.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.9	.0	.0	1.9		0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.00000000000000000000000000000000000000
13-16	.0	.0	.0	.0	.0	.0	0		.0	.0	.0	.0	.0	.0	.0
17-19 20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0			.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40 41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	•0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	••	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.00	.0	.0	.0	.0	.0
87+ TOT PCT	.0	4.5	.0	.0	.0	.0	12.7		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	3,9	4.2	.0	.0	12.7		.0	.0	.0	.0	.0	.0	.0
				•								22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	484	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.3	.0	.0	.0	.3
1-2	.0	1.0	1.9	.0	.0	.0	2,3		.0	3.6	1.3	.0	• 0	.0	2.9
3-4	.0	.0	.0	.0	.0	.0	.0		.0	1.6	1.3	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	•0	.0	.0
• •	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9 10-11	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	••	.0	.0
10-11	.0	.0	.0	.0	.0	.0	•0		•0	.0	.0	.0	• 0	.0	.0
12 13-16	• •	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	•0	.0	.0
17-19	• 0	.0	.0	.0	:0	.0	•0		,0	.0	.0	.0	•0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	:0	• 0	.0	• •
23-25	• 0	.0	.0	• • •	.0	.0	• 0		.0	.0		.0	• 0	.0	••
26-32	.0	:0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	.0	.0	.0
23-40	.0	:0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	.0	:0	.0	.0	.0	.0
33-40 41-48	:0	:0	.0	.0	.0	.0	.0		.0	.0	.0	:0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
61-70	.0	:0	.0	.0	.0	.0	.0		.0	.0	-0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
874	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	1.3	.0	.0	.0	2,3		.0	.0	2.9	.0	000000000000000000000000000000000000000	.0	8.1
						.0					,	.0	•		

PERIOD:	tove	P_4111	1963-	0-7					SEPT	EMBER					0007	VALDIVI	
PER 1001	LUVE	N-ALL!	1,03-	.,,,				TABLE	18	(CONT)				AKEA	40.		.6W
				PC	T FREQ	-	SPEED				TION	VERSUS :	SEA HEIG	HTS (FT			
				5									SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.3	1.0	.0	.0	.0	2,3			.0	1.3		.0	.0	.0	1.3	
1-2	.0	4.2	1.0	.0	.0	.0	5,2			1.3	5.5		.0	.0	.0	7.1	
3-4	.0	2.3	2.6	.0	.0	.0	4.9			.0	.0		.0	.0	.0	.3	
5-6	.0	.0	2.6	1.0	.0	.0	3,6			.0	. 3		.3	.0	.0	3.2	
7	.0	1.3	4.9	1.0	.0	.0	7.1			.0	1.3		1.6	0000000000	.0	5.8	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0		1.3	,0	.0	1.3	
10-11	1.3	.0	.0	.0	.0	.0	1,3			.0	.0		.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.3		.0	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0				.0	.0		.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	•0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0		.0	
33-40	.0	:0	.0	.0	.0	.0	.0			.0	.0		.0	•0	.0	.0	
41-48	.0	.0	• 0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	:0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0			:0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	0	.0	.0	
87+	.0	.0	.0	.0		.0	:0			.0	.0		.0	.0	.0	.0	
TOT PCT	1.3	9.1	12.0	1.9	.0	.0	24.4			1.3	8.8	6.2	3.2	:0	.0	19.5	
	•••	***				••	24.4					٠		••			
				W									NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10		22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	. 3	
1-2	.0		.0	.0	.0	.0	1,5			.0	1.9		.0	.0	.0	1.9	
3-4	.0	2.3	2.9	.0	.0	.0	2,3			.0	3.9		.0	.0	.0	6.5	
5-6	.0	2.3	.0	•0	.0	.0	2,3			1.3	.0		.0	.0	.0	3.2	
8-9	.0	1.3	0	•0	.0	.0	1.3			.0	.0		.0	.0	.0	4.2	
	.0	.0	1.3	.0	.0	.0	1,3			.0	.0		1.6	.0	.0	2.9	
10-11	.0	.0	•0	.0	.0	.0	.0			.0	.0		1.9	.0		1.9	
13-16	.0	1.0	.0	1.3	.0	.0	2,3			.0	.0		.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	:0		.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	• 0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	• 0	.0	.0	
26-32	.0	:0	.0	.0	.0	.0	.0			.0	.0		.0	• • •	.0	.0	
33-40	.0	:0	.0	.0	.0	.0	:0			.0	.0		.0	• •	.0	:0	
41-48	.0	:0	.0	.0	.0	.0	:0			.0	.0		:0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	:0	.0	:0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		:0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		:0	:0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	- 0			.0	.0		.0	.0	.0	.0	
TOT PCT	.0	5,8	3.6	1.3	.ŏ		10.7			1.3	5.8	10.4	3.6	.0	.0	21.1	98.7
										-			0				

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	1.3	2.6	2.6	.0	.0	.0	6.5	003
1-2	1.3	19,5	3.9	.0	.0	.0	24.7	
3-4	.0	10.4	9.1	1.3	.0	.0	20.8	
5-6	1.3	2,6	9.1	1,3	.0	.0	14.3	
7	.0	3.9	13.0	2.6	.0	.0	19.5	
8-9	.0	.0	2.5	3,9	.0	.0	6.5	
10-11	1.3	.0	.0	3,9		.0	5.2	
12	.0	1.3	.0	1.3	.0	.0	2.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0		.0	.0	
20-22	.0	. 0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-46	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
				• •				77
TOT PET	5.2	40.3	40.3	14.3	.0	.0	100-0	

PERIOD	1 (04	R-ALL	195	1-1977	,				TABLE	19											
					PERCENT	FRE	QUENCY	0F WA	VE HE 1	GHT (F	1) VS	WAVE P	ERIDD	(SECON	DS)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	HEAN
46	.7	6.8	4.1	.7	.7	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	3
6-7	.0	.7	4.1	7.5	10.2	3.4	2.0	.7	1.4	.0	.0	.0	.0	.0	.0	.0		.0	.0	44	7
6-7 8-9	.0	.0	2.7	2.7	8.2	2.0		.0	.7	4.1	.7	.0	.0	.0	.0	.0		.0	.0	33	9
10-11	.0	.7	.0	2.0	2.0	1.4	2.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	18	
10-11	.0	.0	1.4	.0	.0	.7	.7	1.4	. 7	.0	.0	.0	.0	.0	.0	.0		.0	.0	7	9
>13	.0	.0	.0	.7	.7	2.0		.7	.7	.0	.0	.0	.0	.0	.0	.0		.0	.0	12	9
>13 INDET	.7	.0	.7	.0	.0	.7	.7	.0	1.4	3.4	.0	.0	.0	.0	.0	.0		.0	.0	11	12
TOTAL	2	12	19	20	32	18	15	10		11	1	0	0	0	0	0		0	0	147	
PCT	1.4	8.2	12.9	13.6	21.8	12.2	10.2	6.8	4.8	7.5	•7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1869-1977

TABLE 1

AREA 0027 VALDIVIA 40.45 74.6W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
N NE	11.8	.0	4.7	:0	.0	.0	.0	16.5	9.4	:0	:0	.0	.0	.0	74.1
E SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	6.7	.0	.0	.0	.0	7.5	3.0	.0	2.3	1.5	.0	.0	92.0
NW W	5.6	1.7	8.0	.0	.0	.0	.0	7.3 18.7	2.2	.0	2.2	.0	.0	.0	88.2
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT TOT OBS:	4.0	.4	4.4	.0	.0	•0	.0	8.4	1.8	.0	1.3	.4	.0	.0	88.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00&03 06&09 12&15 18&21	7.5 3.6 4.7	.0 1.6	7.5 9.1 3.1	.0	.0	.0	.0	13.2 12.7 9.4	1.9 1.8 2.6 1.8	.0	1.8 1.6 1.6	.0 .0 .0	.0	.0	84.9 83.6 87.5 94.6
TOT PCT	3.9	.4	4.8	.0	.0	.0	.0	8.8	1.8	.0	1.3	.4	.0	.0	87.7

TARIE 2

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIR	D SPE	ED (KN	TS)								HOUR	(GMT)			
0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
.7	3.2	3.2	1.7	:1	.1		9.2	14.9	7.5	.0	10.1	9.5	10.4	.0	11.3	5.1
.3	1.1	.3	.5	.0	.0		1.7	7.6	1.4	.0	.9	3.4	2.2	16.7	1.4	4.8
1.3	9.2	10.2	2.9	• 1	.0		23.7	12.6	25.1	50.0	25.1	24.3	25.7	16.7	19.8	23.7
.9	6.7	6.5	2.2	. 2	. 2		16.8	13.5	16.6	.0	15.4	17.8	16.3	33.3	18.6	14.7
.0	.0	.0	.0	.6	D		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
162	850	794	237	36	10	2089		12.7	336	5	343	300	335	6	480	284
	.7 .3 .3 .5 1.3 1.2 .9 .9	0-3 4-10 .7 3.2 .3 1.0 .3 1.1 .5 3.3 1.3 9.2 1.2 8.2 .9 6.7 .9 8.0 .0 .0 1.6 850	0-3 4-10 11-21 .7 3.2 3.2 .3 1.0 .2 .3 1.1 .3 .5 3.3 2.5 1.3 9.2 10.2 1.2 8.2 6.9 .9 6.7 6.5 .9 8.0 8.3 .0 .0 .0 1.6 850 794	0-3 4-10 11-21 22-33 .7 3.2 3.2 1.7 .3 1.0 .2 * .3 1.1 .3 * .5 3.3 2.5 .5 1.3 9.2 10.2 2.9 1.2 8.2 6.9 1.3 9 6.7 6.5 2.2 .9 8.0 8.3 2.7 .0 .0 .0 .0 1.6 850 794 237	.7 3.2 3.2 1.7 .4 .3 1.0 .2 .4 .1 .3 1.1 .3 .4 .0 .5 3.3 2.5 .5 .0 .1 .3 9.2 10.2 2.9 .1 1.2 4.2 6.9 1.3 .3 .3 .9 6.7 6.5 2.2 .2 .9 8.0 8.0 8.3 2.7 .7 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	0-3 4-10 11-21 22-33 34-47 48+ .7 3.2 3.2 1.7 .4 .1 .3 1.0 .2 * .1 .0 .5 3.3 2.5 .5 .0 .0 1.3 9.2 10.2 2.9 .1 .0 1.2 8.2 6.9 1.3 .3 .0 .9 6.7 6.5 2.2 .2 .2 .9 8.0 8.3 2.7 .7 .2 .0 .0 .0 .0 .0 .0 1.6 162 850 794 237 36 10	0-3 4-10 11-21 22-33 34-47	0-3 4-10 11-21 22-33 34-47	0-3 4-10 11-21 22-33 34-47	0-3 4-10 11-21 22-33 34-47	0-3 4-10 11-21 22-33 34-47	0-3 4-10 11-21 22-33 34-47	0-3 4-10 11-21 22-33 34-47	0-3 4-10 11-21 22-33 34-47	0-3 4-10 11-21 22-33 34-47	0-3 4-10 11-21 22-33 34-47

WND DIR	0=6	7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00 03	HOU!	12 15	18 21
N NE E SE	1.8	3.9	2.5	:9	.0		9.2 1.7 1.7	14.9 9.6 7.6 10.9	7:4 1:4 1:4 3:7	9.8 2.1 2.1 7.9	10.2 2.0 2.5 8.8	9.0 1.3 1.1
8 8 8 8	1.6 4.8 4.2 3.8	4.0 12.0 9.6 7.5	3.3		.0		23.7 17.8 16.8	12.6	25.5 22.5 16.3		25.6 12.0 16.6	21.2
NW VAR CALM	3.8	10.6	.0	1.7	.0		20.8	14.0	20.8	18.5	18.8	23.6
TOT PCT	486	1023	22,1	100	18	2089	100.0	12.7	100.0	100.0	341	764

PERIODI	(PRIMARY)	1906-1977
	(OVER-ALL)	1860 1977

AREA 0027 VALDIVIA

PERCENTAGE	FREQUENCY	OF	WIND	SPEED	BY	HOUR	(GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21			48+	MEAN	FREQ	DBS
00603	.9	5.3	43.7	38.4	9.7	1.8	.3	12.4	100.0	341
90300	1.7	7.2	41.5	36.4	11.0	1.6	. 6	12.4	100.0	643
12615	3.5	6.5	40.2	36.1	11.7	1.8	.3	12.6	100.0	341
18621	1.0	5.5	38.9	40.1	12.2	1.8	.5	13.0	100.0	764
TUT	34	128	850	794	237	36	10	12.7		2089
PCT	1.6	6-1	40.7	38.0	11 3	1.7	. 5		100.0	

....

,	CT FRE			DIREC		(EIGHTHS)							CEILIN					
WND DIR	0=2	3-4	5-7	8 6	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N	.4	. 3	2.4	4.7		7.1	.0	.0	.0	1.4	2.0	.9	1.3	.5	.0	.5	1.1	
NE	.1	.1	1.5	.6		6.0	.0	.0	.0	.1	.5	.5	.0	.0	.0	.0	1.3	
E	. 4	.4	1.3	.0		4,8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
SE	1.5	. 3	1.3	. 5		3,6	.0	.0	.1	.0	.5	.3	.0	.5	.0		2.1	
S	13.4	3.2	7.1	3,2		3,3	.0	.0	2.9	.5	2.9	1.3	.5	.0	.0	.0	18.7	
SW	2.3	1.4	5.4	7.1		6.1	.0	.0	1.5	1.0	2.1	2.3	2.8	.0	.0	.0		
W	1.4	2.8	6.1	10.9		6,4	.0	.5	1.0	3.8	3.8	3.2	1.8	.0	.0	.0	7.1	
NW	1.3	. 8	7.3	8.0		6.7	.5	.5	1.5	.3	1.8	3.3	. 8	.0	1.0		7.7	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.5	1.0	. 5		3.8	.0	.0	. 5	.0	.0	.0	.0	.5	.0		2.0	
TOT OBS	43	19	66	70	198	5.4	1	2	15	14	27	23	14	3	2	1	96	198
TOT PCT	21.7	9.6	33.3	35.4	100.0	•	.5	1.0	7,6	7.1	13.6	11.6	7.1	1.5	1.0	.5	48.5	100.0

TABLE 7

				OF SIMU				
				VSBY (NM				
CFILING	. OR	. OR	. 58	= DR	- DR	. DR	· DR	. 1
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	
OR >6500	.5	1.5	1.5	1.5	1.5	1.5	1.5	1
TR >5000	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3
OR >3500	6.6	9.1	9.6	9.6	9.6	9.6	9.6	9
OR >2000	14.7	19.8	21.3	21.3	21.3	21.3	21.3	21
OR >1000	20.3	32.5	35.5	35.5	35.5	35.5	35.5	35
TR >600	25.4	40.1	43.1	43.1	43.1	43.1	43.1	43
DR >300	27.4	47.7	50.8	50 B	50 B	50 8	50.8	50

TOTAL NUMBER OF DESI 197

PCT FREQ NH <5/81 47.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	OBS
9.9	9.4	9.9	8.9	10.3	5.4	11.8	8.4	26.1	.0	203

nc	TI	18	

								00	TOBER						
PERIOD:	(PRIMARY) 19 (OVER-ALL) 19	906-1977 869-1977						TA	BLE 8				ARE	40.45	
			P	ERCENT	PREC	DF WIN	D DIRE	CTION TH VAR	VS DCC	URRENC!	E OR N	ON-DCC	URRENC	E OF	
	VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL	
	<1/2	PCP NO PCP	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0	.0		
		TOT \$.0	•0	.0	.0	.0	.0	•0	.0	.0	.0		
	1/2<1	PCP NO PCP TOT &	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.9		
		PCP			.0	-					.0	.0	.0		
	1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	2<5	PCP NO PCP	.0	.0	.0	.0	.,	.1	.4		.0	.0	1.3		
	265	TOT \$::	.0	.0	.0	.3	.6	:	.0	.0	.0	2.7		
	5<10	PCP ND PCP TOT \$	2.0	.6	.7	.7	10.3	3.1 4.0	4.8	2.7 4.7 7.4	.0	.4	6.7 27.4 34.1		
	10+	PCP NO PCP	5.5	1.6	1.1	2:0	17.4	10.1	12.8	9.0	.0	1.8	61.9		
		TOT &	5.5	1.6	1.1	2.7	17.4	10.2	13.1	9.0	.0	1.8	62.3		

TOT PCT 9.5 2.1 1.8 3.4 29.6 15.0 19.5 16.8 .0 2.2 100.0

TABLE 9

223

				PERCEN	T FREG	ARY INC	ND DIF	S OF V	ISIBIL	ND SPE	ED		
VSBY (NM)	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	рСТ	TOTAL
•	0-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
5 5 5	11-21	.0	.0	.0	.0	. 5	.2	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	•0	.5	.2	.0	.0	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2<5	4-10	.3	.3	.0	.0	.3	.3	.0	.0	.0		1.4	
	11-21	.0	.0	.0	.0	.3	.4	.3	.3	.0		1.4	
	22+	.3	.0	.0	.0	.0	.0	.3	.0	.0		.7	
	TOT \$.7	.3	.0	•0	.6	.8	.7	.3	.0	.0	3.5	
	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.7	
5<10	4-10	1.0	•0	.5	.5	1.6	1.2	1.0	2.1	.0		8.0	
	11-21	2.2	.3	.0	.3	4.7	1.6	3.2	3.7	.0		16.1	
	22+	.6	•1	.0	.0	2.4	.7	.0	.3	.0	_	4.2	
	TOT \$	3.8	.4	.5	.9	8.7	3.5	4.6	6.1	.0	.3	29.0	
	0-3	.6	1.0	.4	.0	.7	.7	1.0	.5	.0	1.7	6.6	
10+	4-10	2.3	.4	.6	1.8	4.6	4.6	4.5	3.1	.0		22.0	
	11-21	1.7	•0	.0	.8	10.8	5.9	6.5	4.7	.0		30.4	
	22+	.3	•0	.0	.0	4.9	1.5	.3	.3	.0	-	7.3	
	TOT \$	5.0	1.4	1.0	2.6	21.1	12.7	12.2	8.7	.0	1.7	66.4	
	OT 085					-							286
T	OT PET	9.5	2.2	1.6	3.5	30.9	17.1	17.8	15.2	.0	2.1	100.0	

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PERIOD: (PRIMARY) 1906-1977 (DVER-ALL) 1869-1977

TABLE 10

AREA 0027 VALDIVIA 40.45 74.6W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8	TOTAL
(GMT)	149	299	599	999	1999	3499	3500 4999	6499	7999			ANY HGT	DBS
60300	.0	2.0	10.2	4.1	14.3	6.1	6.1	.0	2.0	.0	44.9	55.1	49
90300	.0	.0	6.4	8.5	14.9	12.8	6.4	.0	.0	.0	48.9	51.1	47
12615	.0	1.8	10.5	8.8	15.8	15.8	5.3	3.5	.0	.0	61.4	38,6	57
18621	2.0	.0	2.0	8.2	10.2	10.2	10.2	2.0	2.0	2.0	49.0	51.0	49
TOT	.5	1.0	7.4	15	28	23	6.9	1.5	1.0	.5	104	98 48,5	202

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT	IVE PCT	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00603	•0	.0	.0	3.2	41.3	55.6	63	00603	.0	12.2	18.4	26.5	55.1	49
06609	.0	.0	.0	8.3	33,3	58.3	72	06609	.0	6.7	24.4	26.7	48.9	45
12615	.0	1.3	.0	2.7	25,3	70.7	75	12615	.0	12.7	23.6	38,2	38.2	55
18621	.0	1.3	1.3	1.3	19.0	77.2	79	18621	2.1	4.2	12.5	37,5	50.0	48
TOT PCT	.0	.7	.3	3.8	29,1	191	289	TOT	.5	9.1	19.8	32,5	47.7	197

TABLE 13

TABLE 1

	PERCI	ENT FRI	EQUENC	Y OF R	ELATIV	HUMI	DITY BY	TEMP	TOTAL	PCT		PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	90-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.5	.0	.0	.0	.0	.0	1	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0
60/64	.0	.0	.5	.0	.0	.0	.0	. 0	1	.5	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0
55/59	.0	.0	1.0	1.0	3.3	9.5	3.8	2.4	44	21.0	3.1	.1	1.3	. 8	5.0	2.4	4.2	3.1	.0	1.0
50/54	.0	.0	.5	1.9	7.6	12.9	21.9	14.3	124	59.0	5.6	1.7	.4	. 8	18.7	7.3	11.2	13.0	.0	.5
45/49	.0	.0	.0		2.4	7.6	5.2	2.4	37	17.6	1.0	.5	.0	1.1	3.9	5.7	3.1	1.0	.0	1.4
40/44	.0	.0	.0	.0	.5	.0	. 3	. 5	3	1.4	.0	.0	.0	.0	.7	. 7	.0	.0	.0	.0
TOTAL	0	0	5	6	29	63	66	41	210	100.0			•			•				
PCT	.0	.0	2.4	2.9	13.8	30.0	31.4	19.5			9.6	2.3	1.7	3.3	28.7	16.1	18.5	17.0	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

						-			
HOUR (GMT)	MAX	998	95%	50%	5%	1%	MIN	MEAN	TOTAL
00603	63	58	56	52	47	45	45	51.7	335
06609	59	57	55	51	46	44	42	50.7	642
12615	62	59	57	52	47	43	42	51.9	330
18621	66	62	59	54	49	46	45	53.7	668
TOT	66	60	67	60	47	48	49	62 1	1978

	PERC	ENT FRE	QUENCY	UF RELA	TIVE H	UMIDITY	BY HOUR	l .
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00603	.0	.0	12.2	28.6	36.7	22.4	81	49
90300	.0	.0	15.4	23.1	32.7	28.8	82	52
12815	.0	3.4	8.6	36.2	32.8	19.0	80	58
18821	.0	16.7	18.5	31.5	22.2	11.1	74	54
TOT	0	11	29	64	66	43	79	213

DCTDBER

PERIOD: (PRIMARY) 1906-1977 (DVER-ALL) 1869-1977

TABLE 17

AREA 0027 VALDIVIA

PCT	FREQ	QF	AIR	TEM										S INITHOUT	PRECIE	(NOITATION)
					VS	AIR	-SEA	TE	MPER	ATURE	DIFF	ERENC	(DEG	F)		
					2000							100				

AIR-SEA TMP DIF	41	45	49 52	53 56	57 60	61	65 68	TOT	FOG	FOG
14/16	.0	.0	.0	:0	.0	:0	.5	1	.0	2.5050005500 2.55054599450055005500550
9/10	.0	.0	.0	.0	2.0	.0	.0	4	.0	2.0
7/8	.0	.0	.0	.0	. 5	.0	.0	1	.0	.5
6	.0	.0	.0	.0	1.0	.0	.0	2	.0	1.0
5	.0	.0	.0	1.5	1.0	.0	.0	6	.0	3.0
4	.0	.0	.0	1.5	1.0	.0	.0	5	.0	2.5
3	.0	.0	.0	3.5	2.0	.0	.0	2 6 5	.0	5.5
2	.0	.0	.5	7.5	.5	.0	.0	17	. 5	8.0
-1 -2 -3 -4 -5 -6	.0	. 0	4.0	5.5	.5	.0	.0	19	.0	9.5
ō	.0	.5	8.0	3.5	. 5	.0	.0	25	.0	12.4
-1	- 0	. 5	6.0	3.0	. 0	.0	.0	15	. 0	0.5
-2	.0	2,5	9.5		.0	.0	.0	33		15 0
- 2	• •	.,5	10.0	4.5	.0	.0	.0	22	5	10.4
	.0	2.0	3.5	• • •	• •	.0	•0		• 6	10.4
	.0	2.0	3.5	1.0	.0	.0	.0	11	0	3.3
• 2	.0	3.0	3.0	1.0	.0	.0	.0	14	••	7.0
-0	. 5	.0	.5	.0	.0	.0	.0	2	•0	1.0
-7/-8	.0	1.0	.5	1.0	.0	.0	.0	2 5 2	.0	2.5
-7/-10	.0	.0	1.0	.0	.0	.0	.0		.0	1.0
-11/-13	.0	.0	.5	.0	.0	.0	.0	1	.0	.5
-14/-16	.5	.0	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	2		94		18		1		3	.5 .5 198
		20		32.8		.0		201		
PCT	1.0	10.0	46.8	32.8	9.0	.0	. 5	100.0	1.5	98.5

PERIOD: (DVER-ALL) 1963-1977

									ADEL 10						
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	CTION V	ERSUS S	EA HEIG	HTS (FT		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.2	.2	.0	.0	:0	.0	:4
1-2	.0	. 9	2.2	.0	.0	.0	9.4		.9	.0	.0	.0	.0	.0	.9
3-4	.0	.9	.0	.0	.0	.0	. 9		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.5	1.8	.0	.0	3,3		.0	.9	.0	.0	.0	.0	.9
7	.0	.0	.9	.0	.0	.0	. 9		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32 33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	-0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
TOT PCT	.0	1.8	4.6	1.8	.0	.0	8,1		1.1	1.1	.0	.0	.0	.0	2.2
												SE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.3		.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.0	1.5	.0	.0	.0	1.5
3-4	.0	. 9	.0	.0	.0	.0	0		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0		.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	5.5		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.5	.0	.0	.0	.0	5,2		.0	1.1	1.8	.0	.0	.0	2.9

PERIOD:	(DVE	2-411	1042-1	077					DCTOBER				4054	0027	VALDIVI	
PER 100:	LUVE	-ALL	1403-1	477				TABLE	18 (CONT)				AREA			.64
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	TION	VERSUS	SEA HEIG	HTS (FT)			
HGT	1-3	4-10	11-21	5 22-33	34-47	48+	PCT		1=3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.3	.0	.0	.0	.0	1.3		.0	2.2		.0	.0	.0		
1-2	.0	4.4	4.2	.0	.0	.0			.9	. 9		.0	:0	.0		
3-4	.0	2.6	3.5	.0	.0	.0	6,1		.0		3.5	.0	:0	.0		
5-6	.0	.0	5.7	.9	.0	.0	6.6		.0	.0	2.2	.0	:0	.0		
7	.0	.9	5.0	. 9	.0	.0	6,8		.0	.0			:0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0		.0	. 0	•	
13-16	.0	. 0	.0	.0	.0	.0	.0		.0	.0			0000	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0				.0			
20-22	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
23-25	.0	.c	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	. 0		.0	.0		.0	. 0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		. 0	.0		.0	:0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	9.2	18.4	1.8	.0	.0	29.4		.9	3.1	11.0	.0	.0	.0		
												NW				TOTA
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10		22-33	34-47	48+	PCT	PCT
<1	1.5	.7	.0	.0	.0	.0	2.2		1.1	.0		.0	.0	.0	1.1	
1-2	.0	1.5	2.5	.0	.0	.0	4,2		.0	3.7			.0	.0	5.0	
3-4	.9	1.3	2.6	.0	.0	.0	4,8		.0	3.1		.0	.0	.0		
5-6	.0	.0	2.4	.0	.0	.0	2,4		.0	.0			0	.0	2.0	
7	.0	.0	3,3	.0	.0	.0	3,3		.0	.0			.0	.0	.2	
8-9	.0	.0	.7	.0	.0	.0	.7		.0	.0			.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0		
	.0	. 0	.0	.0	.0	.0	.0		.0	. 0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0		
41-48		.0	.0	.0	.0	.0	.0		,0	.0	.0		.0	.0		
41-48	.0					.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48 49-60 61-70	.0	.0	.0	.0	.0											
41-48 49-60 61-70 71-86	.0	.0	.0	.0	.0	.0	0		.0	. 0		.0	000000000000000000000000000000000000000	.0	.0	
41-48 49-60 61-70	.0	.0	.0		.0		17.5				.0	.0	.0		.0	95

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.1	6.1	1.8	.0	.0	.0	14.0	503
1-2	2.6	11.4	14.9	.0	.0	.0	28.9	
3-4	. 9	8.8	16.7	.0	.0	.0	26.3	
5-6	.9	. 0	14.0	2.6		.0	18.4	
7	.0	. 9	9.6	. 9		.0	11.4	
8-9	.0	. 0	.9	.0		.0	. 9	
10-11	.0	.0	.0	.0		.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0		.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0		.0	.0	
26-32	.0	.0	.0	.0		.0	.0	
33-40	.0	.0	.0	.0		.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0		.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
					_			114
TOT DET	10.5	28 1		2.4	. 0	- 0	100.0	

peein): (N	ER-ALL)	196	1-1977	,				TABLE	10											
		LIN-ALL.	1,,	1-1-1																	
					PERCENT	PKE	MUENCA	UP WA	AE HET	GHT (FT	1 A2	MAVE PI	EKIUD	(25COM	151						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
6-7	2.3	6.4	8.2	5.8	6.4	4.1	3.5	1.2	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	
8-9	.0	.6	3.5	2.3	3.5	2.9	4.1	1.8		.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	36	8
10-11	.0	.0	.0	1.2	1.2	1.8	1.2	1.8	.6	.0	.0		.0	.0	.0	.0		.0	.0	16	12
>13 INDET	3.5	.0	.0	.0	1.8	.0	.0	.0		.0	.0		.0	.0	.0	.0		.0	.0	. 0	
TOTAL	10	20	36	20	30	15	1221	. 8	. 8	.0	.0	. 3	.0	.0	.0	.0	•0	.0	.0	171	6

PERIOD: (PRIMARY) 1906-1977 (DVER-ALL) 1870-1977

TABLE 1

AREA 0027 VALDIVIA

PERCENT FREQUENCY OF WEATHER DECURRENCE BY WIND DIRECTION

			PRECIPITATION TYPE					PE				OTHER WEATHER PHENOMENA			
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNDW	NB SIG
N NE	17.9	2.9	5.7	.0	.0	.0	.0	23.6	8.6	.0	2.1	.0	.0	.0	65.7
	29.4	.0	11.8	.0	.0	.0	.0	41.2	.0	.0	.0	.0	.0		58.8
E	.0	. Q	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	1.8	.0	.0	.0	.0	1.8	.0	.0	.0	1.3	.0		
SW	.0	2.3	.0	.0	.0	.0	.0	2.3	7.5	.0	.0	.5	.0	.0	96.9
W	2.5	4.5	2.5	.0	.0	.0	• 0	9.6	12.7	.0	2.5	.0	.0	•0	89.7
NH	3.6	2.9	11.7	.0	.0	.0	.0	18.2	5.8	.0	6.6	.0		.0	75.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0				.0	.0	69.3
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	.0
-	•						. 0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT TOT DBS:	239	2.1	3.8	.0	•0	•0	•0	10.0	5.9	.0	1.7	.4	.0	.0	82.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FDG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00£03 06£09 12£15 18£21	1.6 3.4 9.8 6.3	.0 3.3 4.8	4.7 3.4 3.3 3.2	.0	.0	.0	.0	6.3 6.8 16.4 12.7	7.8 6.8 3.3 4.8	.0	1.6 1.7 1.6 1.6	3.1 .0 .0	.0	.0	81.3 84.7 78.7 81.0
TOT PCT TOT OBS:	5.3	2.0	3.6	•0	.0	•0	.0	10.5	5.7	.0	1.6	.8	.0	.0	81.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	EO (KN	1270								HDUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N NE	.8	2.3	2.5	.6	•1	.0		6.3	12.3	5,5						9.9	5.5
	.1	.5	.2		.0	.0		1.2	8.0	,9	20.0			2.5		.6	
S E	• 1	1.8	2.0	.8	.2	.0		4.9	14.9	3,3		6.1		1.8	.0		
S	1.7	10.3	13.6	4.2	.0	.0		29.8	13.3	31.6		29.3			50.0	25.1	
SW	1.1	9.7	6.6	1.5	• 1			19.0	11.3	20.3	20.0				33.3	17.5	
NW W	1.0	6.7	7.1	2.4	15	.0		17.4	13.5	18.0				15.3	.0		
VAR	.0	•0	.0	.0	.0	.0		18.3	14.4	18.7	20.0	19.0		16.6	.0	20.8	
CALM	2.2	•		••	• •	••		2.2	.0	1.7	.0	.0	3,6	3.6	.0	0	
TOT DBS	163	781	812	255	34	1	2046		12.8	346	. 5	349	280	329	.0	472	259
TOT PCT	8.0	38.2	39.7	75.2	1.7			100.0			100.0			100.0	100.0	100.0	100.0

_	_	-	_	

WNO DIR	0-6	7=16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	06	12 15	
NE SE SW W NW VALM	1.8 .5 .7 5.9 4.4 3.5 3.4	2.5 .5 .2 2.4 13.2 10.9 8.3 8.2	1.8 2 1 1.3 9.8 3.3 4.4	.2 .0 .6 .9 .4 1.3	.00.00		6.3 1.2 .9 4.9 29.8 19.0 17.4 18.3	12.3 10.7 8.0 14.9 13.3 11.3 13.5 14.4	5.4 1.2 .0 3.2 31.1 20.3 18.3 18.7	4.7 1.5 1.4 7.0 29.3 19.3 16.7 18.1	5.4 2.5 1.8 4.9 33.3 17.2 15.1 16.3	8.4 .5 .5 4.0 28.0 18.9 18.8 19.1
TOT OBS	22.8	46.3	527 25,8	4.7	.4	2046	100.0	12.8	1.7 351 100.0	2.1 629 100.0	335 100.0	731 100.0

N	•	w	e	-		0

PERIOD:	(PRIMARY)	1906-1977
	(OVER-ALL)	1970 1977

AREA 0027 VALDIVIA 40.45 74.6W

PERCENTAGE	FREQUENCY	DF	WIND	SPERD	BV	HOUR	(GMT)	

				WIND	-	(KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21			48+	MEAN	FREQ	OBS
60300	1.7	4.6	37.3	43.0	12.0	1.4	.0	13.1	100.0	351
90300	2.1	6.7	39.6	37.2	13.0	1.3	.2	12.6	100.0	629
12615	3.6	7.5	37.9	36.4	12.5	. 2.1	.0	12.2	100.0	335
18621	1.9	4.8	37.5	41.7	12.2	1.9	.0	13.1	100.0	731
TUT	45	118	781	812	255		1	12.8		2046
PCT	2.2	5.8	38.2	39.7	12.5	1.7			100.0	

TABLE 5

TABLE 6

,	CT FRE			DIREC		EIGHTHS)			PERCEN	AND DO	REQUEN	CY DF	CEILIN NH <5/	B BY W	IND DE	RECTIO	4/8) N	
WND DIR	0=2	3-4	5-7	3 8	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	TOTAL
N	.0	. 8	4.6	10.8		7,3	.4	.0	.0	6.3	3.4	1.4	.9	.5	.0	.0	3.4	
NE	.0	.0	.4	3.0		7.6	.1	.0	.0	. 8	.9	1.5	.0	.0	.0	.0	.0	
E	.0	.0	.4	. 4		7.5	.0	.0	.0	.0	. 8	.0	.0	.0	.0	.0	.0	
SE	. 3	.0	.0	. 1		2,6	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
S	8.2	5.7	5.0	6.4		4.2	.0	.0	.0	2.8	2.1	2.4	1.4	.0	.5	.0	16.1	
SW	3.9	2.6	7.0			5,6	.0	.0	.0	2.4	5.0	3.4	1.2	.0	.0	.0	10.4	
*	2.1	2.1	6.4	5.0		5,8	.5	.0	.0	2.4	4.1	1.9	. 5	.0	.0	.0	6.1	
NW	.0	. 8	3.0			7.2	.0	.0	.0	4.3	3.2	2.2	.1	.0	.0	.0	2.4	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	1.0	.5	. 5		3,1	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	3.1	
TOT OBS	31	25	53	85	194	5.7	2	0	.0	37	39	25	8	1	1	.0	81	194
TOT PCT	16.0	12.9	27.3	43.A	100.0		1.0	.0	.0	19.1	20.1	12.9	4.1	. 5	. 5	.0	41.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING MEIGHT (NM >4/8) AND VSBY (NM)

				VSBY (NM	1)			
CEILING	 OR 	• OR	- DR	- OR	- OR	- OR	 OR 	= OR
(FEFT)	>10	>5	>5	>1	>1/2	>1/4	>50YD	>0
DR >6500	.0	.5	.5	.5	.5	.5	.5	.5
TR >5000	.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OR >3500	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
7R >2000	13.9	17.4	18.4	18.4	18.4	18.4	18.4	18.4
OR >1000	29.9	37.3	39.3	39.3	39.3	39.3	39.3	39.3
DR >600	37.3	54.2	57.7	58.2	58.2	58.2	58.2	58.2
DR >300	37.3	54.2	57.7	58.2	58.2	58.2	58.2	58.2
OR >150	37.3	54.2	57.7	58.2	58.2	58.2	58.2	58.2
nR > 0	37.3	54.2	57.7	58.7	59.2	59.2	59.2	59.2
TOTAL	75	109	116	118	119	119	119	119

TOTAL NUMBER OF OBSI 201 PCT FREQ NH <5/81 40.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 OBSCD OBS 9.4 7.6 7.1 8.0 7.1 12.1 7.6 6.7 33.9 .4 224

á	n	v	E	M	A	6	0	

PERICO:	(PRIMARY)	1906-1977
	(DVER-ALL)	1870-1977

TA	BL	E	8

AREA 0027 VALDIVIA 40.45 74.6W

		P	ERCENT	PREC I	F WIN	D DIRE	TH VAR	VS DC	LUES	E OR N	IBILI	CURRENC TY	E OF
VSBY		N	NE	€	SE	\$	SW	w	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	•0	.0	.0		
	PCP	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	
1241		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT \$.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	PCP	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.8	
<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT \$.0	.4	.0	.0	.0	.0	.4	.0	•0	.0	. 6	
	PCP	.4	.0	.0	.0	.0	.0	.0	.8	.0	.0	1.3	
<5	NO PCP	1.2	.0	.0	.0	.0	.0	.4	1.4	.0	.0	2.9	
	TOT %	1.6	.0	.0	.0	.0	.0	.4	2.2	.0	.0	4.2	
	PCP	1.5	.9	.0	.0	.0	.0	.4	1.4	.0		4.2	
<10	NO PCP	4.5	. 1	.0	.4	3.6	4.4	2.1	3.8	.0	.0	18.8	
	TOT %	6.0	1.0	.0	.4	3.6	4.4	2,5	5.1	.0	.0	23.0	
	PCP	1.3	.0	.0	.0	.4	.5	.7	.4	.0	.0	3.3	
0+	NO PCP	5,5	2.0	,6	. 3	19.7	17.4	12,3	6.6	.0	3.8	68.2	
	TOT \$	6.8	5.0	.6	, 3	20,1	17.9	13.1	7.0	.0	3.8	71.5	
	TOT 085												239
	TOT PUT	14.6	3.6	.6	.7	23.6	22.3	16.4	14.3	.0	3.8	100.0	

							ABL						
									ISIBIL		ED		
VSBY (NM)	SPO KTS	N	NE	E	SE	s	SW	*	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	• 1	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.3	•1	•0	.0	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0		,3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.3	•0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.0	.3	•0	.0	.0	.0	.3	.0	.0	.0	.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
2<5	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	1.3	.0	.0	.0	.0	.0	.3	1.5	.0		3.1	
	224	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.3	•0	•0	.0	.0	.0	.,	1.8	.0	.0	3.5	
	0-3	.7	.0	.0	.0	.0	.3	.0	.0	.0	.0	1.0	
5<10		1.6	.4	.0	.0	1.5	2.7	1.4	2.5	.0		10.1	
	11-21	3.0	• 0	.0	.3	2.2	1.0	1.4	3.3	.0		11.2	
	22+	.4	.4	• 0	.0	.0	.0	.0	.9	.0		1.7	
	TOT \$	5.7	.9	•0	.3	3.7	4.0	2.6	6.7	.0	.0	24.1	
	0-3	.6	.1	.3	.0	.7	1.2	.5	.4	.0	3.1	7.0	
10+	4-10	1.9	.5	.3	.3	7.4	6.3	4.5	3.6	.0		24.8	
	11-21	2.8	1.0	.0	.3	10.6	8.7	5.5	1.8	.0		30.8	
	22+	1.0	.0	.0	.0	3.8	1.8	1.7	. 3	.0		8.7	
	TOT \$	6.4	1.7	.5	.6	22.6	18.1	12.2	6.2	.0	3.1	71.3	
	TOT ORS												286
	tat pet	13.6	3.0	.5	1.0	59.5	22.1	15.6	14.8	.0	3.1	100.0	

OVEMBE	

PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1870-1977

TABLE 10

AREA 0027 VALDIVIA

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

						101017							
HOUR (GMT)	149	150 299	300 599	999	1999	2000	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	.0	.0	•0	20.8	15.1	15.1	1.9	1.9	.0	.0	54.7	45.3	53
90380	•0	.0	•0	30.2	20.9	11.6	2.3	.0	.0	.0	65.1	34.9	43
12615	3.7	.0	•0	13.0	22.2	14.8	7.4	.0	.0	.0	61.1	38.9	54
18621	.0	.0	.0	12.3	22.8	10.5	3.5	.0	1.8	,0	50.9	49,1	57
TOT	1.0	.0	.0	38	20.3	27	3.9	.5	.5	.0	119	88 42.5	207

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)),BY HOUR	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00603	.0	.0	.0	4.1	21.9	74.0	73	00803	.0	.0	23.5	33.3	43.1	51
90300	•0	.0	.0	.0	27,5	72.5	80	06809	.0	.0	31.0	35.7	33.3	42
12615	.0	1.5	2.9	4.4	20.6	70.6	68	12615	3,8	3.8	18.9	43.4	37.7	53
18621	.0	-0	.0	5.5	26.0	68.5	73	18821	.0	.0	18.2	36.4	45.5	55
PCT	.0	.3	.7	10 3.4	24.1	210 71.4	294	TOT	1.0	1.0	22.4	75 37.3	81 40.3	201

TABLE 13

				TABL	E 14				
	PERCENT	FR	EQUENC	Y OF W	IND DI	RECTIO	N BY TI	EMP	
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	•0	.4	.4	.0	0	.0	.0
7.6	1.4	.3	.0	10.1	6.1	6.6	4.5	.0	1.3
3.9	.0	.0	1.0	13.5	12.6	8.7	5.9	.0	.0
13.7	3.1	.3	1.5	28.0	21.9	16.6	11.9	.0	3.0

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP TOTAL PCT
TEMP F 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 085 FREQ 65/69 60/64 55/59 50/54 45/49 TOTAL PCT .0 .0 .4 .4 .0 .0 .0 .0 .0 1.3 .9 3.4 4.3 .9 .9 .0 2.6 2.6 12.8 16.2 3.8 .4 .4 10.6 11.5 15.3 8.5 .0 .0 .0 1.7 .0 2.1 1 10 34 70 84 36 .4 4.5 14.5 29.8 35.7 15.3 2 .9 25 10.6 89 37.9 110 46.8 9 3.8 235 100.0 .0 .0

HOUR (GMT) 00603 06609 12615 18621 TOT

			TAP	LE 15									TABLE	16			
MEANS,	EXTREM	ES AND	PERCEN	TILES	OF TE	1P (DE	G F) B	Y HOUR		PERC	ENT FRE	QUENCY	OF RELA	TIVE H	YTIDIMU	BY HOUR	1
MAX	99%	95%	50%	5%	1*	MIN	MEAN	TOTAL	HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
64	61	59	54	49	47	46	53.8	350	00803	.0	1.7	6.9	32.8	41.4	17.2	82	58
64	60	57	53	48	46	43	52.7	627	90300	.0		5.0	21.7	43.3		84	60
63	60	59	54	49	47	46	54.1	316	12615	.0			29.0			77	62
70	65	62	56	51	47	46	55.8	624	18821	.0			32.3	24.2	11.3	75	62
70	63	60	54	49	46	43	54.1	1917	TOT	0	12	34	70	88	38	80	242
	64 64 63	MAX 99% 64 61 64 60 63 60 70 65	MAX 99% 95% 64 61 59 64 60 57 63 60 59 70 65 62	MEANS, EXTREMES AND PERCE! MAX 99% 95% 50% 64 61 59 54 64 60 57 53 63 60 59 54 70 65 62 56	MAX 99% 95% 50% 5% 64 61 59 54 49 64 60 57 33 48 63 60 59 54 49 70 65 62 56 51	MEANS, EXTREMES AND PERCENTILES OF TENTES AND PERCENTILES AND PE	MEANS, EXTREMES AND PERCENTILES OF TEMP (DE MAX 99% 95% 50% 5% 1% MIN 64 61 59 54 49 47 46 63 60 57 53 48 46 43 63 60 59 54 49 47 46 67 0 65 62 56 51 47 46	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) B MAX 99% 95% 50% 5% 1% MIN MEAN 64 61 59 54 49 47 46 53.8 64 60 57 53 48 46 43 52.7 63 60 59 54 49 47 46 54.1 70 65 62 56 51 47 46 55.8	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR MAX 99% 95% 50% 5% 1% MIN MEAN TOTAL 085 04 01 59 54 49 47 46 53.8 350 04 00 57 53 48 46 43 52.7 627 03 00 59 54 49 47 46 54.1 316 70 05 62 56 51 47 46 55.8 624	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR MAX 99% 95% 50% 5% 1% MIN MEAN TOTAL OBS (GNT) 64 61 59 54 49 47 46 53.8 350 00403 64 60 57 53 48 46 43 52.7 627 00409 63 60 59 54 49 47 46 54.1 316 12415 70 65 62 56 51 47 46 55.8 624 18421	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR PERCENTILES OF TEMP (DEG F) BY HOUR PERCENTILES OF TEMP (DEG F) BY HOUR O-29 (GMT) 64 61 59 54 49 47 46 53.8 350 O0803 .0 63 60 57 53 48 46 43 52.7 627 O0809 .0 63 60 59 54 49 47 46 54.1 316 12215 .0 70 65 62 56 51 47 46 55.8 424 18821 .0	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR PERCENT FRE MAX 99% 95% 50% 5% 1% MIN MEAN TOTAL OBS (GNT) 64 61 59 54 49 47 46 53.8 350 00203 .0 1.7 64 60 57 53 48 46 43 52.7 627 00209 .0 3.3 63 60 59 54 49 47 46 54.1 316 12219 .0 4.8 70 65 62 56 51 47 46 55.8 624 12219 .0 9.7	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR PERCENT FREQUENCY MAX 99% 95% 50% 5% 1% MIN MEAN TOTAL (GMT) 64 61 59 54 49 47 46 53.8 350 00403 .0 1.7 6.9 64 60 57 53 48 46 43 52.7 627 06409 .0 3.3 5.0 63 60 59 54 49 47 46 55.1 316 12615 .0 4.8 21.0 70 65 62 56 51 47 46 55.1 8 424 18621 .0 9.7 22.0	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HQUR MAX 99% 95% 50% 5% 1% MIN MEAN TOTAL 085 (GMT) 64 61 59 54 49 47 46 53.8 350 00403 .0 1.7 6.9 32.8 64 60 57 33 48 46 43 52.7 627 06409 .0 3.3 5.0 21.7 63 60 59 54 49 47 46 54.1 316 12615 .0 4.8 21.0 29.0 70 65 62 56 51 47 46 55.8 424 18621 .0 9.7 22.6 32.3	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HQUR PERCENT FREQUENCY OF RELATIVE HITMAX 99% 95% 50% 5% 1% MIN HEAN TOTAL (GMT) 64 61 59 54 49 47 46 53.8 350 00803 .0 1.7 6.9 32.8 41.4 64 60 57 33 48 46 43 52.7 627 06809 .0 3.3 5.0 21.7 43.3 63 60 59 54 49 47 46 54.1 316 12615 .0 4.8 21.0 29.0 37.1 70 65 62 56 51 47 46 55.8 624 18621 .0 9.7 22.6 32.3 24.2	MEANS_EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR MAX 99% 95% 50% 5% 1% MIN MEAN TOTAL OBS (GNT) 64 61 59 54 49 47 46 53.8 350 00003 .0 1.7 6.9 32.8 41.4 17.2 64 60 57 53 48 46 43 52.7 627 00609 .0 3.3 5.0 21.7 43.3 26.7 63 60 59 54 49 47 46 54.1 316 12215 .0 4.8 21.0 29.0 37.1 8.1 70 65 62 56 51 47 46 55.8 624 18821 .0 9.7 22.6 32.3 24.2 11.3	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR MAX 99% 95% 50% 5% 1% MIN MEAN TOTAL OBS (GNT) 64 61 59 54 49 47 46 53.8 350 00803 .0 1.7 6.9 32.8 41.4 17.2 82 64 60 57 53 48 46 43 52.7 627 00809 .0 3.3 5.0 21.7 43.3 26.7 84 63 60 59 54 49 47 46 54.1 316 12815 .0 4.8 21.0 29.0 37.1 8.1 77 70 65 62 56 51 47 46 55.8 624 18821 .0 9.7 22.6 32.3 24.2 11.3 75

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NOVEMBER

PERIOD: (PRIMARY) 1906-1977 (DVER-ALL) 1870-1977

TABLE 17

AREA 0027 VALDIVIA 40.45 74.6W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

		-								
AIR-SEA TMP DIF	*5	52	53 56	57 60	64	65	69 72	TOT	FÖG	FOG
14/16	.0	.0	.0	:0	.0	::	.4	2	.0	1.3 1.7 3.0 3.9
11/13	.0	.0	.0		.0	. *	.0	3	.0	1.3
9/10	.0	.0	.0	. 9	. 4	.4	.0	4	.0	1.7
7/8	.0	.0	.0	.9	2.2	:6	.0	+	.0	3.0
•	.0	.0	.9	2.6	1.3	.0	.0	11	.9	3.9
5	.0	.0	.4	2.6	1.3	.0	.0	10	.0	4.3
4	.4	.0	1.3	3.0	1.7	.0	.0	15	.4	6.1
3	.0	.0	2.6	3.0	.4	.0	.0	14	.0	6.1
2	.4	.0	2.2	3.2	.4	.0	.0	19	. 4	7.8
1	.0	1.7	4.3	3.9	.0	.0	.0	23	.0	10.0
ŏ	.0	1.3	9.5	4.8	.0	.0	.0	36	.0	15.6
-1	.0	2.2	7.8	2.2	.0	.0	.0	28	.0	12.1
-2	.0	4.3	6.3	.9	. 4	.0	.0	23	.0	10.0
-3	.4	2.6	4.3	.4	.0	.0	.0	18	.0	10.0
-4	.4	1.7	1.3	.4	.0	.0	.0		.0	3.9
-5	.0	1.7	1.3	.4	.0	.0	.0		.0	3.9
-11/-13	.4	.0	.0	.0	19	.0	.0	1	.0	.4
TOTAL	5		93		19		1	1.50		227
		36		74		3		231		-
PCT	2.2	15.6	40.3	32.0	8.2	1.3	.4	100.0	1.7	98,3

PERSOD: (OVER-ALL) 1963-1977

				PC	T FREG	OF WIND	SPEED	(KTS)	AND DIRE	TION V	ERSUS S	EA HEIG	HTS (FT		
				N								22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21		34-47	48+	PCT
<1	.7	:7	.0	.0	.0	.0	.7		.0	.0	.0	.0	.0	.0	.0
1-2	.9		2.7	.0	.0	.0	4,3		.0	.9	.0	.0	004000000000000000000	.0	.9
3-4	.0	.7	.0	.0	.0	.0	.7		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.6	.0	.0	.0	3.6		.0	.0	.0	.0	.9	.0	.9
7	.0	.0	5.2	.0	.0	.0	5,2		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.6	.0	.0	1.6		.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.9	.0	.0	. 9		.0	.0	.0	.0	.0	.0	090200000000000000000000000000000000000
12	.0	.0	.0	.0	.0	.0	090000		.0	.00000	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	.0	.0	. 9		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86 87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	18.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	1.4	11.6	3.4	.0	.0	18.0		.0	. 9	.0	.2	. 9	.0	2.0
				•								22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	484	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.0	.0	.0	. 2
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	• 0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32 33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.02.20000000000000000000000000000000000
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	-0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	.0	.7	.0	.0	.0	.7
1000															

PERIOD:	(OVE	R-AII)	1963-1	977					NOVEMBER				ADFA	0027	VALDIVI	4
								TABLE	18 (CONT	,				40.		.6W
				PC	T FREQ C	F WIND	SPEED	(KTS)	AND DIRE	CTION	VERSUS	SEA HETO	HTS (FT			
HGT				\$								22-33	34-47			
< 1	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-11				48+	PCT 2.7	
1-2	.0	5.5	3.9	.0	.0	.0	9.3		.0	*:			:0	.0	2.3	
3-4	.0	5.0	2.3	.0	.0	.0	7.3		.0	4.			:0	.0	8.4	
5-6	.0	.0	3.2	.0	.0	.0	3,2		.0	1.			.0	.0	3.2	
7	.0	.0	3.2	.0	.0	.0	3.2		.0	*:			:0	.0	1.1	
8-9	.0	.0		1.8	.0	.0	1.8		.0				.0	.0	3.6	
10-11	.0	.0	.7	.,9	.0	.0	1.6		.0	:			.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0				.o	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	:			.0	.0	.0	
20-22	.0	.0	.0		.0	.0	.0		.0				.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	. (0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	. (:0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	. (0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	.0	
TOT PCT	.0	10.5	13.2	2.7	.0	•0	26.4		.9	8.9	11.6	.2	.0	.0	21.6	
												NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-1	11-21		34-47	48+	PCT	PCT
<1	.0	.9	.0	.0	.0	.0	. 9		.2	1.	B .0	.0	. 0	.0	2.0	
1-2	.9	3.6	5.2	.0	.0	.0	9,8		.9	1.			.0	.0	2.3	
3-4	.0	.0	2.7	.7	.0	.0	3,4		.0	1.	2.7	.0	. 0	.0	3.9	
5-6	.0	.7	. 0	.0	.0	.0	1.6		.0			.0	.0	.0	.0	
7	.0	.0	1.8	.0	.0	.0	1.8		.0	. (:0	.0	.2	
8-9	.0	.0	.0	.9	.0	.0	. 9		.0	. (.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.9	
12	.0	.0	• 0	.0	1.8	.0	1.8		.0				.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	•			.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0				:0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	•			.0	.0	.0	
23-25	.0	.0	• 0	.0	.0	.0	.0		.0	•			.0	.0	.0	
26-32 33-40	.0	.0	.0	.0	.0	.0	.0		.0	•			.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	:			:0	.0	.0	
49-60	.0	.0	.0	•0	.0	.0	.0		.0	:			:0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	:			.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	:			:0	.0	.0	
TOT PCT	.9	5.2	10.7	1.6	1.8	.0	20.2		1.1	4.			:0	.0	9.3	98.2
	.,	3.2	.0.	1.0		.0	20,2		1.1	٠.	. ,,,	.,		.0	9.5	70.2

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.6	4.5	.0	.0	.0	.0	8.1	UPS
1-2	2.7	13,5	13.5	.0	.0	.0	29.7	
3-4	.0	10.8	11.7	. 9	.0	.0	23.4	
5-6	.0	1.8	9.9	.0	.9	.0	12.6	
7	.0	.0	11.7	.0	.0	.0	11.7	
8-9	.0	. 9	2.7	4.5	.0	.0	8.1	
10-11	.0	.0	.9	2.7	.0	.0	3.6	
12	.0	.0	.0	.0	1.8	.0	1.8	
13-16	.0	.0	.0	.9	.0	.0	. 9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
-,-	••	••	•••	••	•	•••	••	111
TOT PCT	6.3	31.5	50.5	9.0	2.7	.0	100.0	•••

PERIOD): (OV	ER-ALL)	195	1-197	,				TABLE	19											
					PERCEN	FRE	QUENCY	OF WA	/E HEI	GHT (F	T) VS	WAVE P	ERIOD	(SECON	5)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	HEAN
<6	1.1	6.5	8.1	4.3	1.6	.5	.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	4
6-7	.0	.5	5.4	8.1	5.4	2.7	4.8	1.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	7
8-9	.0	.0	5.4	2.2	6.5	3.8	2.7	2.7	1.1	.5	.0			.0	.0	.0	.0	.0	.0	47	8
10-11	.0	.0	.0	1.6	1.1	2.7	.5	1.1	.5	.0	.0			.0	.0	.0	.0	.0	.0	14	8
8-9 10-11 12-13	.0	.0	.5	.0	1.6	1.1	3.8	1.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
>13	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0				.0	.0	.0	.0	.0	.0	1	8
INDET	.5	.5	1.1	.0	.0	1.1	.5	1.1	.0	.0				.0	.0	.0	.0	.0	.0	9	6
13 INDET TOTAL	3	14	38	30	30	23	24	17	5	1	0	0	1	0	0	0	0	0	0	186	7
PCT	1.6	7.5	20.4	16.1	16.1	12.4	12.9	9.1	2.7	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	100.0	

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PERCENT FREQUENCY	OF	WEATHER	DCCURRENCE	RY	WIND	DIRECTION

			F	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
WNO GIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE		
N	18.1	3.1	11.8	.0	.0	.0	.0	33.1	4.7	.0	2.4	.0	.0		59.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	29.0	.0	.0	.0	.0	.0	71.0
E	.0	.0	23.5	.0	.0	.0	.0	23.5	.0	.0	.0	.0	.0	.0	76.5
SE	.0	9.1	9.1	.0	.0	.0	.0	18.2	.0	.0	9.1	.0	.0		72.7
S	.0	. 9	.9	.0	.0	.0	.0	1.8	.0	.0	1.8	.0	1.8		94.7
SW	. 8	.0	3.1	.0	.0	.0	.0	3.9	.4	.0	1.6	.0	.0		94.1
W	1.0	2.0	1.5	.0	.0	.0	.0	4.6	3.0	.0	5.6	.0	.0		86.8
NW	.6	.0	5.8	.0	.0	.0	.0	6.4	5.8	.0	1.2	2.3	.0		84.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.1 327	1.2	3.7	.0	•0	•0	•0	7.0	2.4	.0	2.4	.3	.6	.0	87.2

TABLE 2

DERCENT	FREDUENCY	05	WEATHER	DECURRENCE	RY	HOUR

					-	EKOEMI	FREUDI			WEIGE	DT 1100				
			F	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	SIG WEA
00&03 06&09 12&15 18&21	2.3 1.3 2.5 2.3	2.5 1.3 1.2	4.6 2.5 2.5 4.7	.0	.0	.0	.0	6.9 6.3 6.3	2.3 2.5 2.5 2.3	.0	1.3 6.3 2.3	1.3	1.1	.0	89.7 88.8 83.5 87.2
TOT PCT	2.1	1.2	3.6	.0	.0	-0	.0	6.9	2.4	.0	2.4	.3	.6	.0	87.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			22-33		48+	TOTAL	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	51
N						•		7 7	12.2			7.					
	1.1	2.7	2.6	1.1	• 1	•0		7.7		5,9	5.4		6.1		.0		6.7
NE	. 2	.6	.5		.0	.0		1.3	9.3	1.2	1.8		1.0	2.2	.0		1.0
E	.2	.4	.0	.0	.0	.0		.6	5.4	.4	7.1	.5	, 8	. 8	.0	.4	. 4
SE	. 3	2.1	1.8	.5	.0	.0		4.7	11.6	2,8	.0	4.9	7.1	7.2	10.4	3.3	3.6
S	1.8	10.7	12.6	3.0	. 4	.0		28.6	12.8	29.3	50.0	29.7	27.0	30.2	52.1	25.5	30.0
SW	1.3	9.9	7.2	1.4	. 2	.0		20.0	11.4	24.7	21.4	19.9	17.5	18.6	6.3	18.0	22.9
W	1.6	7.3	6.6	2.0	, 3	.1		17.9	12.6	16.8			19.3	15.4	14.6	20.6	19.1
NW	1.4	6.6		1.6		.1		16.4	12.8	16.0			16.8	14.6	16.7	18.4	15.7
VAR	.0	.0		.0	.0	.0		.0	.0	.0	.0		.0	.0	.0		.0
CALM	2.8	, ,	•		•	•		2.8	.0	3.0			4.5	2.5	.0	1.5	.7
TOT OBS	236	902	842	215	32	3	2230		11.9	367	14	370	314	353	12	520	285
TOT PCT	10.6	40.4	37.8	9.6	1.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0		

WND DIR	0-6	7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL DBS	PCT	MEAN SPD	00	HDU1 06 09	12 15	18 21
N	2.4	3.2	1.4	.6	.0		7.7	12.2	5.8	6.6	8.1	9.3
NE	.5	.6	,2	.0	.0		1,3	9.3	1.2	.7	2.1	1.4
	.4	.2	.0	.0	.0		.6	5.4	.7	.7	.8	.4
SE	1.3	2.3	, 9	.2	.0		4.7	11.6	2.7	5.9	7.3	3.4
5	6.5	13.6	7.1	1.4	.0		28.6	12.8	30.1	28.5	30.9	27.1
SW	5.3	10.7	3,3	.7			20.0	11.4	24.5	18.8	18.2	19.7
W	3.9	9.0	4.0	.9	.1		17.9	12.6	16.1	17.7	15.4	20.1
NW	3.8	7.7	4.0	.7	.2		16.4	12.8	15.9	16.5	14.7	17.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.8				-		2.8	.0	2.9	4.7	2.5	1.3
TOT DBS	600	1056	464	101	9	2230		11.9	381	684	365	800
TOT PCT	26.9	47.4	20.8	4.5	.4		100.0			100.0		

D				

PERIOD: (PRIMARY) 1907-1977 (QVER-ALL) 1868-1977

TABLE 4

AREA 0027 VALDIVIA 40.5\$ 74.6W

PERCENTAGE	FREQUENCY	nF	WIND	SPEED	BY	HOUR	(GMT)	

HUUR	CALM	1-3	4-10	WIND	SPEED (KNOTS) 34-47	48+	MEAN	PCT	TOTAL
HUUN	CALI		4-00	1.45.	26-30	34-41	40.		LUER	003
60300	2.9	8.1	39.1	38.1	10.0	1 2		12 2	100.0	381
					10.0	1.3				
90300	4.7	8.0	43.0	34.1	8.6	1.5	.1	11.3	100.0	684
12615	2.5	8.8	40.0	38.6	9.0	1.1	.0	11.5	100.0	365
18621	1.3	7.0	39,1	40.4	10,6	1.6	.0	12.5	100.0	800
	4.0	174	902	842		32	2	11.9		
TOT	62	114	702	042	215	36		11.4		2230
PCT	2.8	7.8	40.4	37.8	9.6	1.4	.1		100.0	

P	CT FRE			LUUD A		(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN NH <5/	S BY W	HTS (F	T, NH	4/8) JN	
WND DIR	0=2	3-4	5-7	3 & 085CD	TOTAL	CLOUD COVER	000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	1.6	. 3	2.0	5.1		6,2	1.0	.0	. 3	.0	1.8	2.0	.4	.0	.0	. 4	3.2	
NE	.4	.4	.4	1.5		6.1	.0	.0	.0	.4	. 8	.4	.0	.0	.0	.0	1.3	
E	.2	.0	.4	1.0		6,9	.0	.0	.0	.0	.6	.4	.0	.0	.0	.0	.5	
SE	. 8	. 5	1.1	. 9		4.9	.4	.0	.0	. 8	. 2	.6	.0	.0	.0	.0	1.3	
S	14.2	5.4	10.1	4.1		3,5	.7	.0	.4	1.5	4.5	1.9	.0	.7	.0	1.1	23.0	
SW	5.4	2.9	6.8	5.1		4.8	.0	.0	.4	2.4	2.8	2.5	.7	.4	.0	.0	10.9	
W	1.7	.9	6.8	5.6		6.3	.4	.0	.6	2.2	3.2	1.9	.4	.0	.0	. 4	6.1	
NW	1.5	1.5	3.2	6.7		6.2	.1	.0	. 1	2.1	2.2	3.7	.4	.0	.0	.4	4.1	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.7	.4		5,2	.0	.0	.0	.0	.0	.4	.0	.0	.0	. 4	.7	
TOT OBS	73	33	88	85	279	5.0	7	0	5	26	45	38	5	3	0	7	143	279
TOT PCT	26.2	11.8	31.5	30.5	100.0		2.5	.0	1.8	9.3	16.1	13.6	1.8	1.1	.0	2.5	51.3	100.0

CUMULATIVE PCT FRE	o OF	SIMULTANEOUS	DCCURRENCE
OF CETLING HETCH			

					VSBY (NM	1)			
C	EILING	- DR	- OR	• OR	• OR	• DR	DR	· OR	- OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR	>6500	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
OR	>5000	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
nR	>3500	4.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
DR	>2000	13.1	18.4	18.8	18.8	18.8	18.8	18.8	18.8
OR	>1000	24.8	33.7	34.4	34.8	34.8	35.1	35.1	35.1
nR	>600	30.5	42.2	43.6	44.0	44.0	44.3	44.3	44.3
OR	>300	32.3	44.0	45.4	45.7	45.7	46.1	46.1	46.1
OR	>150	32.3	44.0	45.4	45.7	45.7	46.1	46.1	46.1
OR	> 0	32.3	44.3	46.8	47.2	47.5	48.2	48.6	48.6
	TOTAL	91	125	132	133	134	136	137	137

TOTAL NUMBER OF OBS: 282 PCT FREQ NH <5/8: 51.4

TABLE 74

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
14.5	4.9	12.8	8.6	4.0	5.0	12.2	4.9	23.7	1.6	304

c	r	E	M	E	D	

ER IOD:	(PRIMARY) . 1 (DVER-ALL) 1	907-1977 868-1977						TA	BLE 8				ARE	40.55 7	4.6
			P	ERCENT	PREC	F WIN	D DIRE	CTION TH VAR	VS OCC	URRENC	E OR N	DN-DC	CURRENC	E DF	
	VSBY		N	NE	E	SE	s	SW		NW	VAR	CALM	PCT	TOTAL	
		PCP	. 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3		
	<1/2	NO PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6		
		TOT %	. 3	.0	.0	. 3	. 3	.0	.0	.0	.0	.0	. 9		
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	1/241	NO PCP	.0	:0	.0	.0	.3	.0	.0	.0	.0	.0	.3		
		TOT \$.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3		
		PCP	. 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3		
	1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
		TOT &	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3		
		PCP	1.5	.0	.0	.0	.3	.5	.4	.1	.0	.0	2.8		
	2<5	NO PCP	.0	.0	.0	.0	. 3	.0	.5	.5	.0	.0	1.2		
		TOT \$	1.5	.0	.0	.0	.6	.5	.9	. 5	.0	.0	4.0		
		PCP	.8	.0	.0	.6	.3	.0	.3	.8	.0	.0	2.8		
	5<10	NO PCP	1.1	. 5	.5	. 3	2.1	1.9	2.6	3.5	.0	.0	12.5		
		TOT %	1.9	.5	, 5	. 9	2.4	1.9	2,9	4.3	.0	.0	15.3		
		PCP	.3	.0	.3	.0	.0	.3	.0	.0	.0	.0	.9		
	10+	NO PCP	5.4	1.9	,5	2.1	30.7	16.9	11,2	8.3	.0	1.2	78.3		
		TOT %	5.7	1.9	. 8	2,1	30.7	17.2	11,2	8.3	.0	1,2	79.2		
		TOT 085												327	
		TOT PCT	9.7	2.4	1.3	3 4	34.3	10 4	15.1	13.1	.0	1 2	100.0		

									ISIBIL				
(NM)	KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
<1/2	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	22+	. 3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT \$.3	.0	.0	.3	. 3	.0	.0	.0	.0	.0	. 8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	TOT \$.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	-	.0	
	TOT %	. 3	•0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2<5	4-10	.5	.0	.0	.0	.3	.0	.3	.0	.0		1.0	
	11-21	.3	• 0	.0	.0	.5	.7	.5	.7	.0		2.6	
	22+	.5	.0	.0	.0	.0	.0	.0	.0	.0		.5	
	TOT \$	1.3	•0	.0	.0	.8	.7	. 8	.7	.0	.0	4.2	
	0-3	.0	.1	.2	.0	.0	.0	.2	.1	.0	.0		
5<10	4-10	.0	. 3	.3	.3	.7	.4	. 8	1.8	.0		4.4	
	11-21	1.6	• 1	.0	.5	2.2	1.6	. 8	2.0	.0		8.9	
	22+	.3	• 0	.0	.0	.5	.7	.7	.0	.0	-	2.1	
	TOT #	1.9	• 4	.5	.8	3.3	2.7	2.5	3.9	.0	.0	15.9	
	0-3	.0	.5	.0	.0	.9	.2	.5	. 8	.0	1.3		
10+	4-10	2.5	.0	.7	1.4	10.2	8.1	5.3	4.0	.0		32.1	
	11-21	2.8	1.1	.0	.2	13.6	9.0	4.6	3.3	.0		34.7	
	22+	. 3	.0	.0	.3	6.1	.3	. •	.3	.0		7.6	
	TOT \$	5.6	1.6	.7	1.8	30.8	17.6	10.8	8.4	.0	1.3	78.6	
-	OT 085												383
T	IT PET	9.3	2.0	1.1	2.9	35.4	20.9	14.0	13.0	.0	1.3	100.0	

•	E	=	×	B	D

PERIODE	(PRIMARY)	1907-1977
	(OVER-ALL)	1868-1977

AREA 0027 VALDIVIA

PERCENT FREQUENCY OF CELLING HEIGHTS (FEET, NH >4/8) AND

HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
60300	.0	.0	4.0	5.3	14.7	10.7	1.3	1.3	.0	.0	37.3	62.7	75
06609	3.1	.0	.0	7.7	23.1	7.7	4.6	.0	.0	3.1	49.2	50.8	65
12615	5.6	.0	1.4	13.9	15.3	23.6	.0	2.8	.0	1.4	63.9	36.1	72
18621	1.3	.0	1.3	9.1	11.7	10.4	2.6	.0	.0	5,2	41.6	58.4	77
TOT	. 7	0	5	56	46	38	6	3	0	7.4	138	151	289

TABLE 11

TABLE 12

			PERCENT	FREQUENC	Y V58Y	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HO	UR <	1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00	£03	.0	.0	1.0	4.0	16.0	79.0	100	00803	.0	4.1	13.5	25.7	60.8	74
06	603	.0	.9	.0	3.7	19.6	75.7	107	06809	3,1	3.1	10.9	39,1	50.0	64
12	£15	3.6	.0	.0	4.8	15,5	76.2	84	12615	5.7	8.6	22.9	42.9	34.3	70
18	153	.0	.0	.0	4.1	12.4	83.5	97	18621	1.4	2.7	13.5	28,4	58.1	74
T	TO T	. 8	.3	.3	16	16.0	305 78.6	388	TOT	2.5	13	15.2	95 33,7	144 51.1	282

TABLE 13

TARLE 1

	PERCENT FREQUENCY OF RELATIVE MUMIDITY BY TEM									PCT		PERC	ENT FR	EQUEN	Y DF 1	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	\$	SW	W	NW	VAR	CALM
70/74	.0	.0	.4	.0	.4	,0	.0	.0	2	.8	.0	.0	.0	.0	.3	.1	.4	.0	.0	.0
70/74	.0	.0		.0	1.1	.0	1.5	.4	8	3.0	.0	.0	.0	• 1	1.6	. 9	. 4	.0	.0	.0
60/64	.0	.0	.0	. 8	2.3	6.4	12.4	. 8	60	22.6	2.3	. 9	.3	.0	10.0	4.3	1.0	2.9	.0	. 8
55/59	.0	.0	.0	. 8	6.4	15.0	21.1	11.7	146	54.9	6.9	1.2	. 9	1.6	18,5	9.8	9.1	6.9	.0	.0
50/54	.0	.0	.4	. 8	1.9	4.9	6.0	4.5	49	18.4	3.0	. 8	.0	.2	2.5	4.6	3.3	3.3	.0	. 8
45/49	.0	.0	.0	.0	.0	.4	.0	.0	1	.4	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0
TOTAL	0	0	2	6	32	71	109	46	266	100.0										
PCT	.0	.0	. 8	2.3	12.0	26.7	41.0	17.3			12.2	2.9	1.2	1.9	32.9	19.8	14.5	13.1	.0	1.5

TABLE 15

TABLE 16

	MEMMA	EVIKELI	S ANU	PERCE	itres	U- 15		0 -1 0	HUUK
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00603	70	65	62	57	52	50	46	57.1	376
06609	65	62	60	55	50	48	46	55.5	682
12615	69	65	62	57	51	49	44	56.8	336
18621	72	68	64	58	53	51	50	58,5	653
TOT	72	65	63	57	52	49	44	56.9	2047

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY MOUR

0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL

085

0 1.4 14.3 24.3 47.1 12.9 80 70

0 4.6 6.2 30.8 33.8 24.6 82 65

0 4.8 6.5 25.8 41.9 21.0 82 62

0 1.4 18.9 28.4 39.2 12.2 79 74

0 8 32 74 110 47 81 271

DECEMBER

						DI	ECEMBI	ER					
PER IOD:	(PRIMARY) (OVER-ALL)	1907-1977 1868-1977				T	ABLE	17			AR	EA 00	27 VALDIVIA 40.55 74.6
		PCT FREQ OF AIR								OF FO		T PRE	CIPITATION)
			AIR-SEA TMP DIF	46	49 52	53 56	57 60	61	68	69 72	TOT	FOG	FOG
			14/16	.0	.0	.0	.0	:0	.0	.3	1 2	:0	:0
			7/8	.0	.0	.0	1.0	1.0	.0	1.0	7	:0	2.4
			3	.0	.0	.0	.7	2.0	. 3	.0	10	.0	3.4
			3	.0	.0	.7	3.4	2.0	1.7	.0	13 23 19	.0	7.8
			1	.0	.7	5.4	5.1	3.4	.0	.0	37 58 43	:3	12.2
			-1	.0	2.0	4.7	2.0	1.4	.0	.0	27	1.0	8,1
			-3	.0	:7	3.7	1.7	.0	.0	:0	17 15	:3	5.4
			-5 -6 -7/-8	.0	:7	1.7	.7	.0	.0	:0	8	.0	1.4
			TOTAL	1	15	91	113		14	• 5	296	. 8	288
			PCT	.3	5,1	30.7	38.2	19.3	4,7	1.7	100.0	2.7	97.3

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) 34-47 HGT 41 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-34 49-60 61-70 71-86+ 11-21 .0 2.1 1.8 .6 .0 .0 .0 .0 .0 .0 .0 48+ 1-3 4-47 1-3 4-10 34-47 HGT
<1
1-2
3-4
5-6
7
8-9
10-11
12
13-16
17-19
20-22
23-25
26-32
33-40
41-48
49-60
61-70
71-86 1-3 11-21 22-33 1-3

PERIOD: (DVER-ALL) 1963-1977

									DECEMBER							
PERIOD:	(DVE)	-ALL)	1963-1	977				TABLE	18 (CONT)	,			AREA		VALDIVI 55 74	.6W
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	TION	VERSUS S	EA HEIG	HTS (FT)			
HGT				\$ 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
	1-3	4-10	11-21		.0		1.8		.0				34-41	.0	1.8	
«1	.0	1.8	.0	•0	.0	.0	6.3		.0	4:4		.0	:0	.0	8.9	
1-2	.0	3.5	2.8	.0	.0	.0	2.8		.2	7:1		.2	:0	.0	5.1	
3-6	.0	.6	2.1	.0	.0		4.9		.0			.2	.0	.0	2.8	
	.0	.5	4.4	.0		.0	4.3		.0				:0	.0	.2	
7	.0	.0	.6	3.1	.6	.0	***			:		.0	• 0		.2	
8-9	.0	.0	.0	2.9	.0	.0	5,9		.0		6	.2	.0	.0	.8	
10-11	.0	.0	2.3	2.5	.0	.0	4.8		•0			.2	.0	.0	.3	
12	.0	.0	.0	•0	.6	.0	.6		.0	.0		.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	,0		.0			.0	:0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.9	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.9		.0	:0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0		.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0			.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.9		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	. 9		.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0		• • •	.0	. 0	.0	.0	
OT PCT	.0	6.4	12.3	8.4	1.2	•0	28.4		.2	6.,	12.9	.6	.0	.0	19.8	
												NW				гот
MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10		22-33	34-47	484	PCT	PC'
<1	. 5	.0	.6	.0	.0	.0	1.1		.2	. (.0	.0	.0	.2	
1-2	.0	3.7	3.5	.0	.0	.0	7.2		.0	2.0		.0	.0	.0	3.5	
3-4	. 5	1.1	3.4	. 5	.0	.0	5.4		.0	1.7		.0	.0	.0	8.1	
5-6	.0	1.7	.0	.5	.0	.0	2.1		.0	. (6	.0		.0	1.2	
7	.0	.0	.9	.6	.0	.0	1.5		.0		9	.0	.0	.0	1.5	
6-9	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	.0	
10-11	.0	.0	. 5	.5	.0	.0	. 9		.0	. (.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0		.0	.(0.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	. (0.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	. (0.0	.0	.0	.0	.0	
	.0	.0	.0	.0	.0	.0	.0		.0	. (0.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	. 0		.0	. (0.0	.0	.0	.0	.0	
20-22		.0	.0	.0	.0	.0	.0		.0	. (0.0	.0	.0	.0	.0	
20-22	.0			.0	.0	.0			.0	. (0.0	.0	. 0	.0	.0	
20-22	.0	. 0	.0				.0		.0	. (0.0	.0	.0	.0	.0	
20-22 23-25 26-32		.0	.0	.0	.0	.0										
20-22 23-25 26-32 33-40	.0	.0	.0	.0	.0	.0			.0	. (0.0		.0	.0	.0	
20-22 23-25 26-32 33-40 41-48	.0	.0	.0	.0	.0	.0					0.0	.0	.0		.0	
20-22 23-25 26-32 33-40 41-48 49-60	.0	.0	.0	.0	.0	.0	.0		.0	:	0 .0	.0	:0	.0	.0	
20-22 23-25 26-32 33-40 41-48 49-60 61-70	.0	.0	.0	.0	.0	.0			.0	. (0 .0	.0	.0	.0	.0	

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	1.8	4.9	1.8	.0	.0	.0	8.6	403
1-2	.0	15.2	16.6	.0	.0	.0	31.9	
3-4	.6	5.5	19.0	.6	.0	.0	25.8	
5-6	.0	3,1	8.0	1.2	.0	.0	12.3	
7	.0	. 6	3.1	6.1	. 6	.0	10.4	
8-9	.0	.0	. 6	3.1	.0	.0	3.7	
10-11	.0	.0	3.7	3.1	.0	.0	6.7	
12	.0	.0	.0	.0	. 6	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
5187							•	163
TOT PET	2.5	29.4	62.8	14.1	1.2	-0	100-0	

PERIOD	1 (DV	ER-ALL	195	4-197	,				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HEI	GHT (F	T) VS	WAVE P	ERIDO	(SECON	DS)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.7	7.7	14.0	.4	2.6	1.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	
6-7	.0	.9	3.8	8.5	9.4	3.0	4.3	.4	. 4	:0	.0		.0	.0	.0	.0	.0	.0	.0	72	6
8-9	.0	.9	2.1	1.3	3.8	3.0		1.7	.4		.0				.0	.0	.0	.0	.0	41	8
10-11	.0	.0	3.4	.9	1.3	.4	.9	.4	.4	.0	.0		.0		.0	.0	.0	.0	.0	18	6
10-11	.0	.0	1.7	.4	.4	. 9	.0	1.3	.0		.0		.0		.0	.0	.0	.0	.0	11	7
>13	.0	.0	.0	4.3	1.3	.4	.0	.4							.0	.0	.0	.0	.0	15	6
INDET	1.3	.0	.4	.4	.4	.4	.4	.4			.0				.0	.0	.0	.0	.0	9	5
TOTAL	7	22	60	38	45	23	25	11	3	1	O	0	0	0	0	0	0	0	0	235	6
PCT	3.0	9.4	25.5	16.2	19.1	9.8		4.7	1.3	.4	.0	.0	.0	.0	•0	.0	.0	.0	.0	100.0	

PERCENT FREQUENCY OF WEATHER DECURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG	SNOW	OTHER FRIN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	16.8	2.6	6.6	.0	.0	.0	.0	25.5	8.9	.6	3.7	.0	. 3	.0	61.4
NE	11.8	1.1	9.4	.0	.0	.0	.5	22.8	5.2	.0	.5	.0	1.7	.0	69.8
SE	10.7	.0	2.8	.0	.0	.0	.0	13.5	3.7	.0	.0	.0	.0	.0	82.8
SE	1.6	2.1	1.6	.0	.0	.0	.0	5.4	1.8	.0	2.3	.0	.0	.0	90.6
S	.6	. 6	1.5	.0	.0	.0	.0	3.0	1.5	.2	1.7	.2	.4	.0	92.9
SW	1.4	2.2	3.1	.0	.0	.0	.0	6.7	4.4	.2	. 8		.3	.0	87.5
W	5.3	3.8	2.7	.0	.0	.0	.2	11.6	7.5	.4	2.1	.2	.0	.2	77.9
NW	11.0	3.4	6.1	.0	.0	.0	.0	20.6	6.1	.3	3.0	.2	. 3	.0	69.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	. 8	.0	. 8	.0	.0	.0	.0	1.7	.0	.0	17.3	.0	•0	.0	72.7
TOT PCT	6.8	2.3	3.8	.0	.0	.0	-1	12.8	4.8	.3	2.4	•1	.3	•	79,2

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

						anamore sure									
			P	RECIPI	TATIO	N TYPE					OTHER	HEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	7.0 7.8 7.2 5.6	1.7 1.6 3.5 2.6	3.8 4.4 3.7 3.1	.0	.0	.0	.0 .1 .1	12.3 13.7 14.4 11.4	3.3 4.7 5.8 5.4	.0	2.3 2.2 1.8 3.5	.4 .0 .1	.1	.0 .0 .0	81.3 78.3 77.7 78.7
TOT PCT TOT OBS:	7.0 3016	2.3	3.7	.0	•0	•0	•1	13.0	4.8	.3	2.4	•2	.3	•	79.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

				PERC	EIN! MUE	PKEUUE	1164 06	WIND F	STATE CITA	14 04 36	ECD MIN	וח זם ע	JOK					
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21	
N NE E	1.0	1.7	4.3	.1	.7	.1 *		12.5 3.4 2.6	14.8 10.6 8.0	11.8 2.7 2.0	22.3	2.9	11.8	12.3 4.1 3.2	5.7	14.2 3.3 2.2	2.3	
SE S SW	1.5 1.0	9.1		1.6	.1 .3	.1		7.6 23.6 15.4	11.9 12.8 12.9	5,6 25,3 17,6	21.3 13.9	23.6	23.0	13.6	14.1	21.0	25.5	
W NH VAR	.9	5.6	6.7	3.2	.8	.1		17.6	15.0	17.4	19.6	.0	13.9	.0	.0	19.5	. 0	
TOT DBS	9.5	37.8	36,2	13.1	3.0	.5	24688	2.8	13.2	4153 100,0	100.0		3591	3,2 3971 100.0	82	2.1 5430 100.0		

TABLE 3A

					,							
		MIND	SPEED							HOU	R COMT	1
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL	PCT	MEAN	00	06	12	18
						DBS	FREQ	SPD	03	09	15	51
N	2.7	4.8	3,3	1.4	.3		12.5	14.8	12.0	12.2	12.5	13.0
NE	1.2	1.4	, 5	.2			3.4	10.6	2.8	3.8	4.1	3.0
	1.1	1.2	.2				2.6	8.0	2.0	3.2	3.2	2.0
SE	2.0	3.7	1,6	.3			7.6	11.9	5.6	8.6	10.0	6.5
5					.1							22.6
84					. 2							15.9
ŭ"					. 3							15.9
					. 4							19.2
					.0							.0
CALM	2.8	••	••	••			2.8					2.0
						24688						8607
TOT PET	24.7	44.0	23,2	6.7	1.3	_,,,,,	100.0			100.0		100.0
S SW W NW VAR CALM TOT OBS	3.7 3.1 3.0 .0 2.8	11.4 7.6 6.4 7.6 .0	3.1	1.0 .8 1.2 1.8	.1 .2 .3 .4 .0	24688	23.6 15.4 14.7 17.6 .0 2.8	12.8 12.9 14.1 15.0 .0	25.3 17.5 15.0 17.4 .0 2.4 4218 100.0		24.2 13.7 13.4 15.8 .0 3.1 4053 100.0	15 15 19

ANNUAL

PERIOD: (PRIMARY) 1906-1978 (OVER-ALL) 1864-1978

TABLE 4

AREA 0027 VALDIVIA 40.45 74.5W

PERCENTAGE	FREQUENCY	nF	WIND	SPEED	BY	HOUR	(GMT)

					SPEED (PCT	TOTAL
HUUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
60300	2.4	6.7	38,4	36.4	12.6	3.1	.3	13.1	100.0	4218
90300	3.6	7.1	36.6	35.1	12.2	2.7	. 6		100.0	7610
12415	3.1	6.6	38.6	34.9	13.7	2.6	.3	13.0	100.0	4053
18221	2.0	6.3	36.4	37.5	14.0	3.3	. 5	13.7	100.0	8607
TOT	-				-			13.2		24688
PCT	2.8	6.7	37.8	36.2	13 1	3.0	. 5		100-0	

TABLE 5

							No. of Concession,	THE PERSON AND AND AND AND AND AND AND AND AND AN										
P	CT FRE								PERCEN									
WND DIR	0-2	3-4	5-7	8 &	TOTAL OBS	CLOUD	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	.9	1.0	3.7	9.8		6.8	,8	.3	.8	2.4	4.2	1.5	.5	.2	-1	.2	4.0	
NE	.3	. 2	1.2	2.3		0,5		.1	.1	. 8	.9	.9	. 1	•	.0		1.2	
E	.6	.5	.7	.3		4.4	.0	.0	.0	.0	.4	.1		.0			1.5	
SE	1.6	1.0	.9	1.1		3.8	.1	.0	.1	.5	.7	.3		.1		.1	2.7	
S		4.5	7.1				.2		.5	1.5		2.1	.6	. 2	.1	.2		
SW		2.8					.1		.5	1.6			. 9			. 2		
W						5.7	. 4		. 7				. 6	.1		.1		
NW								. 4							. 2	1		
						0		. 0										
	. 7					4 2	• •		• 1							• •		
TOT OBS			.,	• •	2470	5.4	•	.0	••	••	• •	••			••	••		2470
TOT PCT	18.9	14.3	30.4	36.4	100.0		2.1	. 8	3.8	12.0	17.7	11.7	3.3	. 8	.4	.9	46.5	100,0
	NO DIR NE E SE SW W NW VAR CALM	N 9 9 NE 3 E 0 5 E 1.0 S 8.9 S W 2.7 M 2.1 N 1.2 VAR .0 CALM .7 TOT 008 S	N	N .9 1.0 3.7 NE .3 .2 1.2 E .6 .5 .7 SE 1.6 1.0 .9 S 8.9 4.5 7.1 SH 2.7 2.8 6.3 M 2.1 2.6 5.6 NN 1.2 1.2 4.4 VAR .0 .0 .0 .0 CAR .7 TOT DBS	N	NO DIR 0-2 3-4 5-7 8 6 TOTAL OBSC N 9 1.0 3.7 9.8 NE 3 .2 1.2 2.3 E 0 .5 .7 .3 SE 1.0 1.0 .9 1.1 S 8.9 4.5 7.1 4.2 SH 2.7 2.8 0.3 4.3 M 2.1 2.0 5.6 5.6 NH 1.2 1.2 4.4 8.4 VAR 0 0 0 0 0 CALM 7 .4 5 5	NO DIR 0-2 3-4 5-7 8 6 TOTAL CLOUD OBS COVER N 9 1.0 3.7 9.8 6.8 N 19 1.0 3.7 9.8 6.5 E 6.5 7 3 4.4 SE 1.6 1.0 .9 1.1 3.8 SE 1.6 1.0 .9 1.1 3.8 S 8,9 4.5 7.1 4.2 4.1 S W 2.1 2.8 6.3 4.3 5.3 W 2.1 2.6 5.6 5.6 5.7 NN 1.2 1.2 4.4 8.4 6.6 VAR 1.0 0.0 0.0 CALM 7 7 .4 5 5 4.2 TOT 085	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTHS) BY WIND DIRECTION HAND DIR 0-2 3-4 5-7 8 & TOTAL CLUUD N 9 1.0 3.7 9.8 6 0.5 COVER 149 N 9 1.0 3.7 9.8 6,5 6.8 8 E 1.0 1.0 9 1.1 3.8 1.2 S 1.0 1.0 9 1.1 3.8 1.2 S 2.7 2.8 0.3 4.3 3.8 1.2 S 2.7 2.8 0.3 4.3 5.3 1.2 S 2.7 2.8 0.3 4.3 5.3 1.2 S 2.7 2.8 0.3 6.3 6.3 6.3 6.3 N 2.1 2.0 5.0 5.6 5.6 5.7 4.8 NN 1.2 1.2 4.4 8.4 6.6 5.7 NN 1.2 1.2 4.4 8.4 6.6 6.5 NN 1	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTHS) BY WIND DIRECTION MAD DIR 0-2 3-4 5-7 8 & TOTAL CLUUD OBS. COVER N. 9 1.0 3.7 9.8 0.8 0.8 0.8 0.9 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	NO DIR 0-2 3-4 5-7 8 6 TOTAL CLOUD 150 300 180 NBSCD 0BS COVER 149 299 599 199 199 199 199 199 199 199 199 1	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTHS) BY WIND DIR C-2 3-4 5-7 8 6 TOTAL CLUUD OBS COVER NN 9 1.0 3.7 9.8 6.8 8 3 8 2.9 9.99 N 9 1.0 3.7 9.8 6.8 8 3 8 2.9 9.99 N 19 10 3.7 9.8 6.8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTHS) BY WIND DIR C-2 3-4 5-7 8 6 TOTAL CLUUD OBSC DBS CDVER MAND DIR 0-2 3-4 5-7 8 6 TOTAL CLUUD NE 3 .2 1.2 2.3 6.5 4.4 .0 .0 .0 .0 .0 .5 .7 .5 .4 .9 .2 .4 .2 .9	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGMTHS) WHND DIR 0-2 3-4 5-7 8 6 TOTAL CLUUD COVER DAND DCCURRENCE OF AND DCCURRENCE O	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGMTHS) WHOD DIR 0-2 3-4 5-7 8 & TOTAL CLUUD COVER NO 9 1.0 3.7 9.8 6 COVER N 9 1.0 3.7 9.8 6 5.5 6.5 8 1.1 1 8 9.9 1.9 9.9 4999 N 9 1.0 3.7 9.8 6 6.8 8 3 8 2.8 4.2 1.5 5.5 8 1.0 1.0 9.1 1.1 3.8 8 1.1 1.0 1.5 7.7 3.3 8 1.0 1.0 9.9 1.1 3.8 8 1.1 1.0 1.5 7.7 3.3 8 1.0 1.0 9.9 1.1 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTHS) WHND DIR 0-2 3-4 5-7 8 & TOTAL CLUUD NN 9 1.0 3.7 9.8 6 50 5 149 299 599 999 1999 3499 4999 6499 N 9 1.0 3.7 9.8 6 6.8 8 3 8 2.8 4.2 1.5 5.5 .5 .2 8 8 8 .3 8 2.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PCT FREQ DF TOTAL CLUUD AMOUNT (EIGHTHS) BY WIND DIR 0-2 3-4 5-7 8 & TOTAL CLUUD 00 00 150 300 600 1000 2000 3500 5000 6500 NND DIR 0-2 3-4 5-7 8 & TOTAL CLUUD 00 150 300 600 1000 2000 3500 5000 6500 NN 9 1.0 3.7 9.8 6.8 8 3 8 2.8 4.2 1.5 .5 .5 .2 .1 NN 9 1.0 3.7 9.8 6.8 8 3 8 2.8 4.2 1.5 .5 .5 .2 .1 NN 8 3 .2 1.2 2.3 6.5 8 1 1 1 8 9 9 1 1 8 0 0 E 0.5 .7 3 4.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 SS 1.0 1.0 9 1.1 3.8 1 0 0 1 5 1.5 1.5 3.5 21 0 0 0 SS 8.9 4.5 7.1 4.2 4.1 2 1.5 1.5 1.5 3.5 21 0 0 0 0 SN 2.7 2.8 0.3 4.3 5.3 1 1 8 1.0 1.5 1.5 3.5 21 0 0 1 0 0 NN 1.2 1.2 6.5 5.6 5.6 5.7 4 9 2.4 2.4 2.9 1.9 0 1 0 0 NN 1.2 1.2 4.4 8.4 6.6 5.5 4 9 2.4 2.4 2.9 1.9 0 1 0 0 CALM 7 7 4 5 5 5 2470 3.4	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTMS) WHO DIR 0-2 3-4 5-7 8 6 TOTAL CLUUD AMOUNT (CLUUD AMOUNT) NND DIR 0-2 3-4 5-7 8 6 TOTAL CLUUD ON 150 300 600 1000 2000 3500 5000 6500 8000+ NN 9 1.0 3.7 9.8 6 6.8 8 3 8 2.8 4.2 1.5 5 5 2 11 2 1	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTHS) BY WIND DIRECTION MEAN O=2 3-4 5-7 8 6 TOTAL CLUUD AMOUNT (EIGHTHS) NEAN OBSC OBS COVER NEAN NEA

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING MEIGHT (NH >4/8) AND VSBY (NM)

				VSBY (NM	1)			
CFILING	- OR	- OR	· DR	- DR	- DR	• OR	• DR	= OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	1.2	1.3	1.4	1.4	1.4	2.4	2.4	2.4
DK >5000	1.8,	2.1	2.2	2.2	2.2	2.2	2.2	2.2
OR >3500	4.0	5.1	5.3	5.4	5.4	5.4	5.4	5.4
DR >2000	11.9	15.8	16.5	16.7	16.8	17.0	17.0	17.0
OR >1000	23.6	32.2	33.7	34.2	34.4	34.6	34.7	34.7
OR >600	30.0	42.5	45.3	46.0	46.4	46.7	46.7	46.7
OR >300	31.2	45.1	48.8	49.7	50.2	50.6	50.6	50.6
OR >150	31.4	45.6	49.4	50.5	51.0	51.4	51.4	51.4
DR > 0	31.4	46.0	50.6	52.0	52.8	53.3	53.5	53.5

TOTAL NUMBER OF OBS1 2500 PCT FREQ NH <5/81 46.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD OBS 10.4 7.8 9.2 9.8 8.6 8.0 9.1 8.4 27.4 1.5 2661

	N		

								AM	NUAL					
PERIOD: (PE	RIMARY) 1 VER-ALL) 1							TA	BLE 8				ARE	40.45 74.5H
			P	ERCENT	PREC	UF WIN	D DIRE	CTION TH VAR	VS DCC	URRENC	E OR N	IBILI	CURRENC	E OF
	VSBY (NM)		N	NE	E	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	<1/2	PCP NO PCP TOT \$.1	.0	.0	.1	.1	• •	.0	.1	.0	.0	.4	
	1/2<1	PCP NO PCP TOT 3	.3	•1 •	.0	.0	.1	.1	.1 .1	•1 •1	.0	.0	.6 .4 1.0	
	1<2	PCP NO PCP TOT %	.5	:1	.0	.0	.1	•1	.0	.2	.0	.0	1.1	
	2<5	PCP ND PCP TOT %	1.1	.2	:	.2	.1 .2 .3	.3	, 5 , 3 , 8	.8	.0	.0		
	5<10	PCP NO PCP TOT 3	2.1 2.9 5.0	.6 .5	.1	.1	2.9	2.3	2,3	1.7	.0	.2	5.7	
	10+	PCP ND PCP TOT *	7.9	2.4	1.9	3.8	.2 19.7 19.9	12.6 12.9	11.0	7.7 8.1	.0	1.6	2.3 68.0 70.2	
		TOT 045	16.2	4.2	2,3	4.8	24.0	16.2	15,3	14.9	.0	2.1	100.0	2927

TABLE 9

PERCENT FREO OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY													
VSBY	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0		.0	.0			.0	.1	.1	
<1/2	4-10		.0			.1	.1		.1	.0		.3	
	11-21		.0	.8	.0				.1	.0		.2	
	22+	.1		.0	.0	.0	.0	.0	.1	.0		.2	
	TOT \$.1	•	.0	•1	.1	.1	.1	. 3	.0	.1	. 8	
	0-3			.0	.0	.0		.0		.0		.1	
1/2<1	4-10	.1		.0	.0			.0		.0		.2	
	11-21	.1			.0	.1		.1		.0		.3	
	22+	.2		.0	.0		.0	.0		.0		.3	
	TOT *	.3	.1		.0	.1	.1	.1	.1	.0			
	0-3		.0	.0	.0			.0		.0	.1	.2	
1<2	4-10	.2	.0	.0	.0	.1		.1	.0	.0		.4	
	11-21	.3	.0	.0				.1	.1	.0		.5	
	22+	.2	.1	.0			.0		.1	.0		.5	
	TOT #	.7	.1	.0		.2	.1	.2	.3	.0	.7	1.6	
	0-3	.1	.0	.0	.0		.0		.1	.0	.2		
2<5	4-10	.3	.1			.1	.2	.2	.1	.0		1.0	
	11-21	. 8	.1		.1	.1	.2	.3	.6	.0		2.2	
	42+	. 8	.2			.1	.1	.2	.4	.0		1.8	
	TOT %	2.0	. 4	.1	.2	.4	.4	. 8	1.1	.0	.2	5.5	
	0-3	.2	.1	.1			.2	.1	.1	.0	.4	1.2	
5<10	4-10	. 8	.2	. 1	.2	. 8	1.0	.9	1.4	.0		5.4	
	11-21	1.9	.4	.1	.3	1.9	1.1	1.3	2.0	.0		9.0	
	22+	1.8	.3	.0		.4	.4	.4	1.1	.0		4.4	
	TOT \$	4.7	1.0	. 3	.6	3.2	2.8	2.7	4.5	.0	. 4	20.1	
	0-3	.4	.3	.3	.3	.8	.5	.5	.3	.0	2.0		
10+	4-10	3.1	.9	1.0	2.2	6.9	6.0	4.4	3.1	.0		27.6	
	11-21	2.8	. 9	.5	1.4	9.9	5.7	4.0	3.4	.0		29.3	
	22+	1.3	.3		.3	3.2	1.2	1.4	1.1	.0		8.7	
	TOT \$	7.6	2.4	1.8	4.2	20.8	13.5	10.8	7.9	.0	2.0	71.1	
			40.00			411 9							3728
1	TOT PET	15.5	4.0	2.3	5.0	24.8	16.8	14.6	14.2	.0	2.8	100.0	

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PERIOD: (PRIMARY) 1906-1978 (OVER-ALL) 1864-1978

TABLE 10

AREA 0027 VALDIVIA 40.45 74.5W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

					-					The second				
HOUR (GMT)	149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL	
£0300	1.8	.4	4.1	11.2	18.3	8.8	2.7	.9	.2	. 9	49.4	50.6	635	
90300	2.0	.4	4.4	11.7	17.2	9.1	3.0	.0	.3	1.0	49.0	51.0	589	
12615	2.1	1.7	3.7	12.6	19.5	14.9	3.5	1.1	.6	.3	59.9	40.1	679	
18621	2.4	. 8	2.8	11.8	14.3	12.4	3.8	1.1	.6	1.6	51.6	48.4	658	
TOT	2.0	. 8	3.7	11.8	17.3	11.4	3.3	. 8	.4	. 9	52.5	47.5	2561	

TABLE 11

TABLE 12

		PERCENT	FREQUENC	Y VSBY	(MM)	BY HOUR		CUMULAT	CEILIN	FREQ G HGT	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/DR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GHT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00803	.6	.9	1.4	4.7	21.3	71.0	895	00803	1.9	7.0	21.0	29.3	49.7	621
06609	.9	.7	1.0	5.4	21.3	70.6	1061	06809	2.0	8.3	21.1	29.4	49.5	574
12615	1.0	.5	2.1	5.2	19.4	71.8	872	12815	2.2	8.2	23.2	38,7	38.1	660
18621	.7	1.2	2.2	6.8	18.3	70.7	959	18821	2,5	7.0	22.6	30,8	46.6	645
TOT PCT	.8	.8	1.7	5.5	20.1	71.1	3787 100.0	TOT	2.1	7.6	21.9	32,2	45.9	2500 100,0

TABLE 13

TABLE 14

	PERC	ENT FR	EQUENC	Y 0F R	ELATIV	HUM1	DITY BY	Y TEMP	P				PERCENT FREQUENCY OF WIND DIRECTION BY TEMP								
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	S	SW	w	NW	VAR	CALM	
75/79	.0	.0	.0		.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		.0	.0	•0	
70/74	.0	.0	.1	. 1	.1	.1	.1	.0		.4			.1		. 2		.1	.1	.0	.0	
65/69	.0	.0		. 2	. 5	.3	.7	. 3		1.9	.2			.1	.6	.4	. 3	.1	.0	.1	
60/64	.0		.1	. 6	2.0	4.4	5.1	2.6		14.7	2.2	.5	.1	.2	4.3	2.8	2.0	2.3	.0	. 3	
55/59	.0	.0	.4	. 9	3.3	9.3	11.6	7.9		33.3	5.6	1.6	.6	. 9	8.3	5.0	5.4	5.3	.0	.7	
50/54	.0	.0	.2	. 9	5.3	8.6	12.1	7.9		34.9	6.7	1.5	1.0	1.5	6.8	4.9	5.6	6.2	.0	. 8	
45/49	.0	.0	.1	1.1	1.7	4.0		1,8		13.5	1.0	.5	. 8	1.8	3.2	2.4	2.4	1.3	.0	.2	
40/44	.0	.0	.0		.3	.3	. 3	.3		1.2			.1	.4	.3	- 1	.1	.1	.0		
35/39	.0	.0	.0	.0	.0	.0		.0			.0	.0	.0	.0	.0	.0	.0		.0	• 0	
TOTAL				•					2717	100.0			• •						• • •		
PCT	.0	.0	.9	3.8	13.1	27.0	34.5	20.7		- Committee	15.8	4.0	2.7	4.9	23.6	15.5	15.9	15.4	-0	2.1	

TABLE 15

	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL	
00803	76	61	59	54	49	47	39	54.1	4191	00603	.0	3.3	12.8	28.8	35.3	19.8	80	725	
90360	76	60	58	53	48	45	38	53.0	7805	06609	.0	3.7	9.5	24.1	35.9	26.8	82	681	
12815	73	61	59	54	48	45	37	53.8	3913	12615	.0	4.0	12.8	26.1	34.9	22.2	80	712	
18821	77	64	51	55	50	47	41	55.3	7576	18821	.0	7.6	16.8	27.6	32.6		78	701	
TOT	77	62	60	54	49	46	37	54.0	23485	TOT	0	128	372	753	983	584	80	2820	

ANNUAL

PERIOD:	(PRIMARY)	1906-1978
	(OVER-ALL)	1044 107.

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AREA 0027 VALDIVIA 40.45 74.5W

	•														. 4
PCT	FREQ	OF A	IR T	EMPER	ATURE VS AI	(DEG R-SEA	F! AN	D THE	OCCU	RRENCE D	F FDG (DEG F	(wlthout)	PRECIP	OITAT	IN)
AIR-SEA	37	41	45	49		57	61	65	69	73	TOT	W	WD		
TMP DIF	40	44	48	52	56	60	64	68	72	76		FOG	FDG		
14/16	.0	.0	.0	.0	.0	.0	.0	.1	. 1	.1	10		.3		
11/13	.0	.0	.0	.0	.0	.1	. 1	.1	. 2	. 1	17	.0	.6		
9/10	.0	.0	.0	.0	.1	. 5	.2	.2	. 2		36	. 1	1.2		
7/8	.0	.0	.0	.1	. 3	.6	.7	.2	. 1	.0	58	. 2	1.8		
6	.0	.0	.0		. 1	. 5	.5	.2	.0	.0	38	. 1	1.2		
5	.0	.0	.0	.0	. 6	1.3	. 8	.2	. 1	.0	83	• 1	2.9		
4	.0	.0	. 2		1.0	1.6	1.0	.1	.0	.0	107	. 1	3.7		
3	.0	.0	. 1	.1	1.6	2.6	1.0	.4	.0	.0	161	• 1	5.7		
2	.0	.0	.1	. 8	2,4	2.6	1.2	.2		.0	214	.4	7.4		
1	.0	.0	.1	1.3	3.2	2.9	1.6	. 1	.0	.0	266	.1	9.1		
0	.0	.0	.1	3.1	5.0	4.2	1.4	. 1	.0	.0	387	.6	13.3		
-1	.0	.0	.3	3.7	4.7	3.1	.9	.0	.0	.0	355		12.7		
-2	.0		1.0	4.7	3.9	1.8	.6		.0	.0	329		11.8		
-3	.0		1.1	3.9	2.3	1.4	.3	.0	.0	.0	237	.2	8.8		
-4	.0		1.9	2.4	1.7	.6	.1	.0	.0	.0	172	.1	6.6		
-5	.0	. 1	1.9	2.0	1.0	.4	.0	.0	.0	.0	138	.0	5.5		
-6	.0	.1	. 8	. 8	. 2	. 1	.0	.0	.0	.0	49		1.9		
-7/-8	.0	.6	. 4	.3	. 3	.2	.0	.0	.0	.0	53	.0	2.2		
-9/-10	.0	.0	.3	.3		.1	.0	.0	.0	.0	18	.0	.7		
-11/-13			.1		.0	.0	.0	.0	.0	.0	5	.0	.2		
-14/-16	.1		.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1		
TOTAL	,511 mm										2735				
PCT	.1	1.0	8.7	23.5	28,9	24.5	10.4	2.1	.6	.2	100.0	2.6	97.4		

PERIOD: (DVER-ALL) 1963-1978

TABLE 18

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION	VERSUS S	SEA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	. 1	. 5	.1	.0	.0	.0	.7		.1	.4	.1	.0	0	.0	.6
1-2	. 2	1.2	1.1	.0	.0	.0	2.5		.1	.4	.2	.0	.0	.0	
3-4	*	1.5	1.2	.4	.0	.0	3.1		.0	. 2	.5	.1	.0	.0	. 8
5-5	.0	. 4	1.9	.6	.0	.0	2.9		.0	. 3	.3	.1	.1	.0	.9
7	.0	.0	1.4	.8	. 2	.0	2,3		.1	.0	. 2	.2	.0	.0	.6 .8 .9 .5 .3
8-9	.0	.0	.4	1.4	.0	.0	1.7		.0	.0	.1	. 2	.0	.0	. 3
10-11	.0	.0	.1	.8	. 2	.0	1.0		.0	.0	.0	.1	.2	.0	.3
12	.0	.0	.0	• 1	.1	.0	. 2		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	. 1	.2	.0	.0	. 3		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	. 1
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	.0	.0	.0	.0	.0	0		.0	.0	.0	.0	010020000000000000000000000000000000000	.0	.0
TOT PCT	.4	3.6	6.1	4.2	.4	.0	14.8		. 3	1.2	1.4	.8	.3	.0	3.9
HGT				E					1-3	4-10		22-33			
<1	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21		34-47	48+	PCT
1-2		.7	.0	.0	.0	.0	1.0		.1	1.0		.0	.0	.0	1.5
3-4	.0		.3	.0	.0	.0			.0	.5	:4	.0	.0	.0	1.5
5-6	.0	.2	.0	.1	.0	.0	.6		.0	.0	.2	.3	i	.0	. 6
7		:0	.0	.0	:0	.0			.0	.0	'-	:1		.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.2	00000	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0		.1	• 0	.0	.1
12	.1	.0	.0	.0	.0	.0	.1		.0		.0		.0	.0	• • •
13-16	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	• 0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		,0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	,0	.0	,0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.00000000000000000000000000000000000000	.0	.0
49-60	.0	- 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	. 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.1	. 7	.1	.0	.0	2,3		.4	1.8	1.2	.7	0 0	.0	4.1
									-				• •		

PER10D:	COVE	R-ALL)	1963-	1978				TABLE	18	UAL (CONT)				AREA	0027	VALDIVI	.5W
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT	,		
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	1.2	.1	.0	.0	.0	1.4			.2	1.0			.0	.0	1.4	
1-2	. 3	3.5	2.3	.0	.0	.0	6.0			.6	2.4			.0	.0	4.4	
3-4	.0	1.9	3.6	.4	.0	.0	5,8				2.1			.0	.0	4.5	
5-6	. 1	. 5	2.9	.7	.0	.0	4,3			.1	1.0		.3	.0	.0	3.4	
7	. 1	.3	2.3	. 8	.1	.0	3.5				.3			.0	.0	2.0	
8-9	.0	.1	.4	1.0	.0	.0	1.5			.0	.2	5	.2	.0	.0	.9	
10-11	. 1	.0	.7	. 8	.0	.0	1.0			.0		2	.1	.0	.0	.3	
12	.0	.1	.0	.3	.1	.0	.4			.0			.0	.0	.0	.1	
13-16	.0	.0	. 1	. 1	.0	.0	. 1			.0	.0		.0	.0	.0		
17-19	.0	. 1	.0	.0	. 1	.0	.1			.0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	0	
TOT PCT	.7	7.6	12.4	4.1	.2	.0	24.9			. 9	7.0	7.5	1.7	.0	.0	17.0	
				u									NW				TOTAL
HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.7	.1	.0	.0	.0	1.0			.1	. 5	2	.0	.0	.0	. 8	
1-2	. 1	2.3	1.6	.0	.0	.0	3.9			. 2	1.7	. 8	.0	. 0	.0	2.7	
3-4	.1	1.4	2.8	.1	.0	.0	4.4				1.3	3.3		.0	.0	4.8	
5-6	.0	.5	1.6	.4	.0	.0	2.5			. 2	. 1	1.8		. 1	.0	2,5	
7	.0	.3	1.1	.3	.0	.0	1,8			.0	. 2	1.0	.4	.0	.0	1.6	
8-9	.0	.0	.3	.6	.0	.0	. 6			.0	. 1		. 8	.0	.0	1.2	
10-11	.0	.1	.1	.6	.0	.0	. 8			.0	. 1			.0	.0	1.2	
12	.0	.1	.1	.1	. 2	.0	.4			.0	.0		.0	.0	.0	.0	
13-16	.0	.0	.2	.2	.0	.0	.4			.0	.0		.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0				.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0				.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	. 0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0		.0	.0	.0			.0	.0			.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	0			.0	.0	.0	
TOT PCT	.4	5.4	7.8	2.2	. 2	.0	16.0			.5	4.0	7.7	2.8	.1	.0	15.0	98.1

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.4	4.7	.8	.0	.0	.0	8.9	085
1-2	1.6	13,1	8.0	.0	.0	.0	22.7	
3-4	2	9,1	14.3		.0	.0	24.9	
5-6	.5	2,8	10.8	2,8	.2	.0	17.1	
7	.5	1,2	6.8		.2	.0	12.0	
8-9	.0	3	2.0	4,3		.0	6.5	
10-11		, 2	1.3		.4	.0	5,3	
12	:i	, 2	1.1	.5	.3	.0	1.3	
13-16	.0		:4	.6	.0	.0	1.0	
		.0			.,		1.0	
17-19	.0	.1	.0	.1	.1	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0				.0			
17-00		.0	.0	.0		.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								1380
TOT PCT	6.1	31.6	44.6	16.5	1.2	.0	100.0	

PERIO	. (DV	ER-ALL	1 149	2-197	0				TABLE	14											
					PERCENT	FRE	QUENCY	OF WAY	E HEI	SHT (F1	1) VS	MAVE P	ERIOD	(SECON	(20						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.2	6.2	7.9	4.3	2.7	1.9	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	566	4
6-7	.0	1.3	3.8	6.8	6.4	3.8	2.6		.7	.0	.0	.0	.0		.0	.0		.0	.0	576	7
8-9	.0	1.1	2.2	2.8	5.5	3.0			.9	.9	.1			.0	.0	.0		.0	.0	450	
10-11	.0	.4	6	1.5	1.3	2.4			.6	.3	.5	.2	.1		.0	.0	.0	.0	.0	237	9
12-13	.0	.0	. 8	. 5	.5	.7	.9	.9	.6	.1	.1		.0		.0	.0		.0	.0	106	9
>13	.0	.0	.0	. 6		. 6	.6	_		.2	.0	.0			.0	.0		.0	.0	72	9
INDET	1.4	.4	.6	.5	. 8	.6	.6		. 5	.4	.0	.0	.0	.0	.0	.0		.0	.0	135	6
TOTAL		•				•				•			•	•		• • •	•••			2142	7
PCT	2.6	9.3	15.8	17.0	17.8	13.0	11.0	6.3	4.1	2.1	.7	.2	.1	.0	.0	.0	.0	.0	-0	100.0	

PERCENT FREQUENCY OF	DCCURRENCE OF SE	TEMP (DEG F) BY MONTH
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SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DCT	NOV	DEC	ANN	PCT	
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
95/96	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0		
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
73/74	.0	.0	.0	.0	.0	.0	•0	.0	.0	.0	.0	.0	0	.0	
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
67/68	.0	.0	1.1	:1	.0	.0	.0	.0	.0	.0	•0	•	41	.0	
65/66		1.3	1.7	.0	.0		.0	.0		.0	•0	.3	92	.2	
63/64	6.6	7.9	6.4	1.4	.0	.0	.0	.0	.0		.0	1.3	504	2.1	
61/62	14.2	16.7	11.5	6.4	.6	,1	.1	.0	.1	.3	.6	7.3	1222	5.0	
59/60	24.7	25.4	20.4	14.5	4.3	.7	.5	.2	•1	.2	3.1	17.2	2350	9.6	
57/58	27.0	23.5	23.1	20.5	14.9	4.9	1.0	.4	. 3	1.1	9.9	25.4	3192	13.1	
55/56	16.3	16.9	21.6	29.8	31.4	19.7	6.4	2.1	2.9	11.9	31.3	28.5	4499	18.4	
53/54	4.9	5,6	9.4	18.6	28.2	31.5	24.4	12.3	16.0	32.3	31.3	13.7	4610	18.9	
51/52	2,6	1.8	4.0	6,5	15.4	38.2	36.0	38.7	37.9	34.5	19.0	4.9	4540	18.6	
49/50	.6	.4	.6	1.5	4.4	11.7	26.3	36.1	32.2	17.1	4.2	1.1	2681	11.0	
47/48	.1	. 3	.1	. 8	.6	2.8	4.6	8.3	8.8	2.0	.4	.1	562	2.3	
45/46	.0	.0	.0	.0	.1	.4	.7	1.7	1.7	.3	.1		101	.4	
43/44	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	9		
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	1		
39/40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	1		
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
TOTAL	2024	1983	2485	1981	2082	1742	1912	2040	1912	2093	2003	2148	24405	100.0	
MEAN	58.1	58,5	57.8	56.1	54.4	52.9	51.6	50.7	50.9	52.3	54.1	56.7	54.5		

TABLE 21

PRESSURE (MB)

			AV	ERAGE	BY HOU	R (GMT	,			
										TOTAL
MO	0000	0300	0600	0900	1500	1500	1800	2100	MEAN	280
JAN	1017	1016	1016	1016	1016	1017	1016	1016	1016	790
PEB	1016	1014	1016	1015	1017	1015	1016	1015	1016	589
MAR	1016	1018	1016	1016	1016	1019	1016	1017	1016	782
APR	1015	1022	1016	1015	1016	1020	1016	1014	1016	687
MAY	1017	1005	1016	1016	1015	1002	1015	1016	1016	592
JUN	1015	1004	1014	1015	1015	1007	1014	1016	1014	545
JUL	1016	1009	1017	1017	1017	1012	1015	1017	1016	703
AUG	1017	1019	1018	1016	1016	1023	1017	1014	1017	674
SEP	1019	1015	1019	1018	1019	1020	1018	1018	1018	718
DCT	1018	1019	1018	1017	1018	1023	1019	1018	1018	635
NOV	1018	1016	1017	1018	1018	1020	1018	1018	1018	664
DEC	1017	1019	1016	1015	1016	1018	1016	1015	1016	835
ANN	1017	1015	1017	1016	1017	1016	1016	1016	1017	8214
790	1418	68	1380	791	1872	76	2195	714		

PERCENTILES

MO	MIN	1*	5×	25%	50%	75%	95%	99%	MAX
JAN	999	1001	1007	1014	1017	1020	1023	1025	1028
FEB	997	1002	1007	1013	1016	1019	1024	1027	1030
MAR	996	1001	1007	1014	1017	1020	1023	1027	1031
APR	995	997	1002	1012	1017	1020	1025	1029	1031
MAY	994	998	1002	1011	1016	1021	1026	1031	1032
JUN	993	994	998	1009	1015	1021	1027	1028	1033
JUL	994	996	1001	1012	1017	1022	1028	1032	1034
AUG	993	996	1001	1011	1018	1023	1029	1033	1034
SEP	991	997	1003	1014	1019	1024	1029	1032	1034
DCT	997	999	1007	1015	1019	1022	1027	1029	1030
NOV	1003	1005	1009	1015	1018	1021	1026	1028	1031
DEC	998	999	1007	1013	1017	1020	1024	1027	1030

AREA 0028 VALPARAISO 72.9W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
N NE	9.3	.0	2.8	.0	.0	.0	.0	2.8	3.7	:0	9.3	3.7	13.1	.0	76.6
		.0	5.8	.0	.0	.0	.0	10.5	.0			•0	4.7		75.6
E	.0	.0	.0	.0	.0	.0	.0	.0	• 0	.0	.0	•0	.0	.0	100.0
SE	.0	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	2.1	.0	1.0	.0	95.8
S	.0	.4	1.0	.0	.0	.0	.0	1.4	.4	1.1	1.8	.0	2.7	.0	92.6
SW	.0	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	3.4	.6	3.3	.0	91.5
W	.0	.0	3.4	.0	.0	.0	.0	3,4	.0	.0	3.4	.0	.0	.0	93.2
NW	.0	.0	3.1	.0	.0	.0	.0	3,1	.0	.0	6.2	.0	1.5	.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	2.7	.0	2.7	.0	86.5
TOT PCT	614	.2	1.5	.0	.0	.0	.0	1.8	.3	1.0	2.8	.3	3.1	.0	90.7

TABLE 2

DEDCENT	CACALIENCY	0.0	WEATUES	OCCURRENCE		HOUR
PERCENT	PREDUENCT	u-	REATHER	ULCURRENCE	BT	MUUK

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNDW	ND SIG WEA
00603 06609 12615 18621	.0	.6	2.0 3.7	.0	.0	.0	.0	2.0 3.7	.0	3.4	1.8 .7 5.5 3.2	.0 .0 .0	3.1 1.3 5.5 2.6	.0	93.9 92.6 84.7 91.6
TOT PCT	.3	.2	1.4	.0	.0	.0	.0	1.7	.3	1.0	2.9	.3	3.2	.0	90.6

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	0-3			22-33		48+	TOTAL	PCT FREQ	MEAN	00	03	06	HOUR 09	(GMT)	15	18	21
N	1.5	3.1	.8	.1	.0	.0		5.5	6.7	3,6	.0	3.9	3,9	7.0	5.3	7.6	6.2
NE	.6	. 9	.3	.0	.0	.0		1.8	6.1	1.7	.0	1.6	.5	2.8	5.3	2.2	1.0
Ε	.4	.3	.1	.0	.0	.0		.7	4.8	1.3	.0	.4	.3	1.1	.0	.8	.3
SE	.5	2.3	2.8	1.5	.1	.0		7.2	14.5	4.7	20.8	7.1	8.3	8.2	1.3	7.8	6.9
S	3.3	16.4	20.2	7.5	. 8	.1		48.4	13.8	46.8	38.9	50.3	55.5	51.3	47.4	43.7	45.8
SW	2.7	8.5	8.5	1.7	.1	.0		21.6	11.1	27.5	30.6	22.8	17.9	16.3	25.0	20.3	24.5
W	1.4	2.3	.6	.1	.0	.0		4.3	6.6	5.9	4.2	3.1	3.3	2.8	5.3	5.2	5.0
NW	1.1	3.0	.6	.1	.0	.0		4.8	6.6	3.2	.0	2.8	2.3	4.8	5.3		6.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0		
CALM	5.8		• •		•	•		5.8	.0	5,2	5.6	8.1	7.9	5.9	5.3	4.0	4.1
TOT OBS	467	995	915	300	27	4	2708		11.2	458	18	483	353	426	19	658	293
TOT PCT	17.2	36.7	33.8	11.1	1.0	.1	2100	100.0				100.0					

A	0		2	

WND DIR	0-6	7=16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00 03	06 09	12 15	18 21
N NE	3.5	1.7	.3	:0	.0		5.5	6.7	3.5	3.9	6.9	7.2
							1.8	6.1	1.7	1.1	2.9	1.9
SE	1.5	2.8	5.1	.8	.0		7.2	14.5	5.4	7.6	7.9	7.5
5	10.2	20.5	14.6	2.5	.3		46.4	13.6	46.5	52.5	51.1	44.3
SW	6.9	9.6	4.7	- 14	.0		21.6	11.1	27.6	20.8	16.7	21.6
W	2.7	1.3	.3		.0		4,3	6.6	5.9		2.9	5.2
NW	3.1	1.5	.2	.0	.0		4.8	6.6	3.0	2.6	4.8	7.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.8						5.8	.0	5.3	8.0	5.8	4.0
TOT DBS	958	1036	604	101	9	2708		11.2	476	836	445	951
TOT PCT	35.4	38.3	22.3	2.7	. 3		100-0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1909-1978 (OVER-ALL) 1861-1978

TABLE 4

AREA 0028 VALPARAISO 34.55 72.9W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
£0300	5.3	11.1	38.2	30.5	13.2	1.5	.2	11.6	100.0	476
90300	8.0	10.2	38,5	32.3	10.2	. 8	.0		100.0	836
12615	5.8	13.5	36.9	34.8	8.3	.7	.0	10.4	100.0	445
18621	4.0	11.9	34.4	36.3	12.1	1.1	.3	11.9	100.0	951
TUT	156	311	995	915	300	27	4	11.2		2708
PCT	5.8	11.5	36.7	33.8	11.1	1.0	. 1		100.0	

TARLE .

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•	CT FRE			LOUD A		(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN	G HEIG	HTS (T,NH 2	4/8) N	
WND DIR	0=2	3-4	5-7	8 & 6 085CD	TOTAL	MEAN CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999		NH <5/8 ANY HGT	TOTAL
N	.3	1.0	.6	1.3		5.7	.3	.0	.0	.4	.9	.2	.0	.0	.0	.0	1.5	
NE	.0	.0	.8	1.2		7.2	. 3	.3	.0	. 3	.6	. 3	. 3	.0	.0	.0	.1	
E	.0	.0	.3	. 3		6.5	.0	.0	. 3	.0	.0	.0	.0	.0	.0	.0	.3	
SE	2.2	1.0	.6	. 1		2.6	.0	.0	.1	.0	.0	. 5	.0	.0	.0	.0	3.1	
S	30.3	6.8	5.1	6.8		2,6	. 3	.0	. 9	3.8	2.8	2.4	. 5	.0	.0	.3	38.1	
SW	17.9	3.5	3.8	3.5		2,5	.3	.3	. 5	1.3	2.9	. 4	. 5	. 3	.0	.0	22.2	
	2.6	.3	.3	. 8		2,5	.0	.0	.0	.4	.6	.0	.0	.0	.0	.0	2.9	
NW	1.2	.5	.3	. 9		4.4	.0	.0	.0	.3	.4	.0	.3	.0	.0	.0	2.0	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	1.5	1.0	1.8		4.6	.0	.0	.3	.5	. 8	1.0	.0	.0	.0	.0	3.3	
TOT OBS	219	57	50	65	391	2.9		2	8	28	35	19	. 6	1	0	1	287	391
TOT PCT	56.0	14.6	12.8	16.6	100.0	•	1.0	.5	2.0	7.2	9.0	4.9	1.5	. 3	.0	.3	73.4	100.0

TABLE 7

					VSBY (NH	1)			
C	EILING	OR	• DR	- DR	• OR	• OR	- DR	- OR	. 0
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>
OR.	>6500	.3	.3	.3	.3	:3	.3	.3	
- nR	>5000	.5	.5	.5	.3	.5	.5	.5	
OR	>3500	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.
nR.	>2000	4.5	6.8	6.8	6.8	6.8	6.8	6.8	6
- DR	>1000	11.6	15.4	15.6	15.9	15.9	15.9	15.9	15.
- nR	>600	15.9	21.4	22.7	22.9	22.9	22.9	22.9	22
- OR	>300	16.1	22.9	24.7	25.2	25.2	25.2	25.2	25
OR	>150	16.1	23.2	24.9	25.4	25.4	25.4	25.4	25.
- OR	> 0	16.9	23.9	25.7	26.2	26.2	26.2	26.4	26.
	TOTAL	67	95	102	104	104	104	105	10

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7		OBSCD	OBS
31.3	16.9	11.3	8.0	4.9	2.8	3,8	6.1	14.4	.5	425

 	 0	v

							-						
PERIOD: (PRIMARY) (OVER-ALL)	1909-1978 1861-1978						TAI	BLE 8				ARE	A 0028 VALPARAISO 72.9W
		PI	ERCENT	PREC	DF WIN	D DIRE	CTIUN TH VAR	VS DCC	URRENC!	E OR N	DN-DCC	URRENC Y	E OF
V58Y (NM)		N	NE	E	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP ND PCP TOT \$.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	
1/26	PCP 1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT \$.0		•0	.0		.0	•0	.0	.0	.0	.3	
1<2	PCP NO PCP TOT #	.6	.0	•0	.0	.0	.0	.0	.2	.0	.3	1.3	
2<5	PCP NO PCP TOT \$.0	.2	.0	.0	.3 .1	.0 .7	.0 .1	.0	.0	.0	1.8	
5<10	PCP ND PCP TOT %	1.1 1.1	.6	.°°	1.6	8.5 8.5	3.7 4.0	.2 .8 1.0	.6	.0	1.8 1.8	19.3 19.8	
10+	PCP NO PCP TOT %	2.4 2.5	2.1 2.1	.5	2.0	35.2 35.3	21.5 21.5	3,6 3,6	4.0 4.1	.0	3,8 3,8	74.9 75.4	

TOT PBS
TOT PCT 4.4 3.4 1.3 3.9 45.0 26.4 4.6 5.0 .0 6.1 100.0

TABLE 9

				PERCEN	T FREG	DF WI	ND DIR	S OF V	VS WI	ND SPE	ED		
VSBY (NM)	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	рСТ	TOTAL
	0-3	.0	.1	.0	.0	.1	.1	.0	.0	.0	.4	.6	
<1/2	4-10	.0	• 0	.0	.0	.3	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	. 2	.2	.0	.0	.0		. 4	
	22+	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	• 1	• 0	.0	.5	.2	.0	.0	.0	.4	1.3	
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.2	.1	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.4	
	0-3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.4	.6	
1<2	4-10	.3	•1	.0		.1	.1	.0	. 2	.0		.9	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.7	•1	.0	•	.1	.1	.0	.2	.0	.4	1.7	
	0-3	.2	•0	.0	.0	.0	.1	.0	.1	.0	.3	.6	
2<5	4-10	.5	•1	.1	.2	.3	.2	.0	.0	.0		1.4	
	11-71	.0	• 1	.0	.1	.3	.4	.1	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT \$.7	.3	.1	.3	.6	.8	.1	.1	.0	.3	3.2	
	0-3	.5	.2	.3	.1	.7	.5		.3	.0	1.8	5.2	
5<10	4-10	. 8	12	.3	.3	2.5	1.6	.2	.3	.0		6.2	
	11-21	.1	• 1	.0	. 5	2.3	2.2	.0	.0	.0		5.3	
	22+	.0	.0	.0	.2	2.7	.4	.0	.0	.0		3.4	
	TOT %	1.4	.5	.5	1.2	8.2	4.7	1.0	.6	.0	1.6	20.1	
	0-3	. 8	.4	.1	.4	1.9	2.1	.7	1.0	.0	3.9	11.4	
10+	4-10	1.6	1.1	.2	1.2	10.8	8.6	2.1	1.9	.0		27.6	
	11-21	.1	.3	.0	.3	16.0	9.7	.2	.4	.0		27.0	
	22+	.1	.0	.0	.1	5.4	1.6	.1	.0	.0		7.4	
	TOT \$	2.7	1.7	.4	2.0	34.1	22.0	3.1	3.3	.0	3.9	73.4	
1													773
										•			

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PERIOD:	(PRIMARY) (OVER-ALL)	1909-1978

TABLE 10

AREA 0028 VALPARAISD 34.55 72.9W

PERCENT	FREQUENCY C	F CFIL	ING HEIGH	TS (EFET.NH	34/81	AND
-	DCCURR	ENCE OF	NH <5/8	BY HOUR		

HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
£0300	.0	.0	.9	4.5	4.5	3.6	.9	.0	.0	.0	14.5	85,5	110
90360	1.9	.0	2.8	6.6	7.5	3.8	.0	.9	.0	.0	23.6	76.4	106
12615	1.9	1.9	3.7	11.2	15.0	6.5	2.8	.0	.0	.0	43.0	57.0	107
18621	.0	.0	1.1	4.4	7.7	4.4	2.2	.0	.0	1.1	20.9	79.1	91
TOT	. 4	2	9	28	36	19	1.6	1 2	0	1	106	308	414

TABLE 11

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OB\$
00603	.5	.0	1.1	2.7	20.0	75.7	185	00403	.0	1.0	5.7	9,5	84.8	105
06609	1.4	1.4	.9	1.4	19.1	75.8	215	06409	1.9	4.8	11.5	12.5	76.0	104
12615	2.6	.0	3.1	5.2	19,2	69.9	193	12615	2.0	6.9	19.6	24.5	55.9	102
18621	.5	.5	2.1	4.1	21.0	71.8	195	18621	.0	1.2	9.3	15.1	75.6	86
TOT	10	.5	1.8	3.3	156	578 73.4	788	TOT	1.0	3.5		15.4	290 73.0	397

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TOTAL PCT
0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DB5 FREQ 1.1 .0 .9 1.1 .6 1.5 .2 1.1 2.8 7.1 6.2 7.6 .0 .4 2.1 12.7 20.9 12.5 .0 .0 .6 2.1 9.9 7.1 .0 .0 .0 .0 .0 .0 .9 9 9 34 124 201 159 1.7 1.7 6.3 23.1 37.5 29.7 28 5.2 134 25.0 260 48.5 105 19.6 5 9 536 100.0 TABLE 14

	PERCE	NT FRI	EQUENC	YOF	MIND DIE	RECTION	BY TI	MP	
N	NE	E	SE	s	SW	W	NW	VAR	CALM
.0	:0	.0	.0	1.3	1.9	.0	.0	.0	.0
1.7	1.2	.9	2.1	10.3		1.1	3.5	.0	3.0
1.1	.8	.2	1.3	8.3	5.3	.1	.0	.0	2.4
5.6	4.4	1.4	5.0	43.0	24.5	4.2	4.9	.0	6.9

TABLE 15

.0 000000000

TABLE 13

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	75	72	68	62	56	54	50	62.0	465
90300	70	67	64	59	55	53	52	59.3	847
12615	78	69	66	61	55	54	53	60.8	428
18821	79	74	71	64	58	55	50	64.2	829
TOT	79	73	69	61	55	54	50	61.6	2569

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	.0	4.3	5.7	19.3	38.6	32.1	83	140
06409	.0	.0	4.0	20.6	39.7	35.7	86	126
12615	.0	.7	5.7	20.7	40.7	32.1	85	140
18821	.0	7.6	9.0	31.7	31.0	20.7	79	145
TOT	0	18	34	128	206	165	83	551

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PERIOD: (PRIMARY) 1909-1978 (OVER-ALL) 1861-1978

TABLE 17

AREA 0028 VALPARAISO 34.55 72.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRESIDITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

207	0.000000				-			10114		
AIR-SEA	53	57	61	65	69	73 76	77	TOT	FOG	FOG
THP DIF	56	90	04	0.0	"	10	80		-40	-00
20/22	.0	.0	.0	.0	.0	:0	.2	1	:0	:2
17/19	.0	.0	.2	.0	.0	.6	.0	4	.0	. 8
14/16	.0	.0	.0	.2	.0	.0	.0	1	.0	. 2
11/13	.0	.0	.0	.6	. 6	.4	.0	8 9	.0	1.6
9/10	.0	.0	.2	. 8	.6	.2	.0	9	.0	1.8
7/8	.0	.0	2.0	.8	1.4	.2	.0	22	. 4	4.1
6	.0	.4	2.0	1.4	1.4	.0	.0	20	:4	1.6 1.8 4.1 3.9
5	.0	1.6	3.1	1.0	.0	.0	.0	28	. 2	3.0
4	.0	2.5	3.5	1.2	.2	.0	.0	36	. 8	6.5
3	.0	1.4	3.1	2.0	.0	.0	.0	32	. 2	6.3
2	.0	2.2	4.3	2.9	.0	.0	.0	46	. 4	9.0
	1.4	3.1	5.3	2.0	.0	.2	.0	59	.2	11.9
0	.6	4.5	6.5	3.7	.0	.0	.0	75	.2	15.1
-1	1.2	3.7	6.3	2.2	.0000000	.0	.0	66	.4	13.1
1 0 -1 -2 -3	1.2	3.7	2.5	.2	.2	.0	.0	41	.0	8.4
-3	.4	2.0	1.8	.2	.0	.0	.0	22	.0	4.5
-4	.0	1.0	.4	. 2	.0	.0	.0	8	.0	1.6
-5	.6		.6	.0	.0	:0	.0	9	.0	1.8
-6	.0	.2	.2	.0	.0	.0	.0	2	15	. 4
TOTAL	27		206		16		1	_	15	474
		133	-	99		7	-	489	-	
PCT	5.5	27.2	42.1	20.2	3.3	1.4	. 2	100.0	3.1	96.9

PERIOD: (DVER-ALL) 1963-1978

TABLE 18

				PC	T FREQ	OF MINO	SPEED	(KTS)	AND DIREC	TIUN V	ERSUS S	EA HEIG	HTS (FT)		
HGT	1-3	4-10	11-21	N 22-33	34-47	40.			1-3	4-10	11-21	22-33	34-47		
<1	.0	4-10				48+	PCT		.5	.6				48+	PCT
1-2	.5	.5	.0	.0	.0	.0	: 9		:0	:0	.0	.0	:8	.0	1.1
3-4	.5	.5	.0	.0	.0	.0			.0	.0	.0	.0	:0	:0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	:0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.,	.0	0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0
13-16	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.3	.0	.0	.0	.0	2,2		.5	.6	1.4	.0	.0	.0	2.5
				E								SE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	, 5		.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0		•0	. 5	.2	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0		•0	.0	1.3	.0	.0	.0	1.3
770	.0	.0	.0	.0	.0	.0	.0		.0	.2	.0	.1	.0	.0	.4
8-9	.0	:0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.6	.0	.0	.0
12	.0	.0	.0	.0	:0	.0	.0		.0	.0	.0	.5	.0	.0	. ?
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	• 0	.0	.0
20-22	.0	:0	.0	.0	.0	.0	.0		.0	.0	:0	.0	• •	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	:0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0		.0	.0	.0	.0		.0	.0	.0	.0	0000000000	.0	.1 .6 .5 .0 .0 .0 .0 .0 .0 .0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	:0		.0	.0	.0	.0	0000	.0	:0
61-70	.0	.0	.0	.0	.0	.0	:0		.0	:0	.0	:0	• 0	.0	:0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	0		.0	.0	.0	:0	.0	.0	.0
TOT PCT	.0	.5	.0	.0	.0	.0	. 5		.0	.7	1.5	1.3	:0	.0	3.5
			•0	.0	.0	.0	.,				***	4.0			3.9

PAGE 242

PERIODI	1046	9-411	104 1						JANL	ARY							
PERIOU	LUVE	N-ALL)	1703-	1970				TABLE	18 (CONTI				AREA	34.	VALPARA	.9W
				PC	T FREQ DI	WIND	SPEED	(KTS)	AND	DIRECT	100	VERSUS	SEA HEIG	HTS (FT)			
				s									SW	_			
HGT	1-3	4-10	11-21	22-33	34-47	48+	1.3			1-3	4-10		22-33	34-47	48+	PCT	
<1	.0		.0	.0	.0	.0					2.0		.0	.0	.0	2.5	
1-2	.5	4.8	3.7	.0	.0	.0	9.0			.0	4.2			.0	.0	6.8	
5-6			8.4	1.3	.0	.0	13.0			.0	1.5		6	.0	.0	7.4	
7	.0	.7	2.8	2.6	:0	.0	0.4			.0	.0	2.5	1.5	.0	.0	3.6	
8-9	.0	.5	1.4	6.8	.8	.0	9.5			.0	.0			i	.0	.7	
10-11	.0	.0	1.1	2.2	:4	.0	3.6			.0	.0			:i	.0		
12	.0	.0	.5	.8	.0	.0	1.3			.0	.0		:1	• 6	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0		:0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		. 0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	•0	.0	.0	.0			.0	.0			.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	10.5	23,4	19.3	1.2	.0	55,3			. 5	8.2	13.0	4.2	.2	.0	26.1	
													NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.5	. 8	.0	.0	.0	.0	1.3			.5	.6		.0	.0	.0	1.5	
1-2	.0	.4	.4	.0	.0	.0	.7			.0	.5		.0	.0	.0	.6	
3-4	.4	.4	.0	.0	.0	.0	.7			. 1	.0		.0	.0	.0	.1	
5-6	.0	.4	.0	.0	.0	.0	. 4			.0	.1		.0	.0	.0	.6	
7	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
10-11	.0	.0	•0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
20-22	.0	.0	• • •	•0	•0	.0	.0			•0	.0			•0	.0	.0	
26-32	.0	.0	• • • •	.0	.0	.0	.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	•0	•0	.0	.0			•0	.0	.0		.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	•0	.0	.0	
49-60	.0	:0	.0	.0	.0	.0	.0			.0	:0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		•0	:0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	:0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	:0			.0	.0	.0	
			•0	.0	••	.0						.0	.0		.0	.0	

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
	6.1	6.1	. 5	.0	.0	.0	12.6	003
2		10.7					19.2	
	. 9	5.6						
	. 5	1.9						
)	.0	.5					11.7	
	.0	.0			.5			
		.0						
6		.0						
9								
2								
					.0		.0	
12	.0				.0	.0		
0								
8								
0								
0								
16	.0				.0	.0		
+	.0				.0	.0		
								214
CT	8.4	24.8	40.7	24.8	1.4	.0	100.0	
	11 16 92 25 20 88 00 70 66 +	0-3	0-3 4-10 6.1 6.1 7 9 5.6 7 9 5.6 7 1.9 7 0 0 5 7 1.9 7 0 0 0 0 7 0 0 0	0-3 4-10 11-21 6-1 6-1 .5 9 10-7 7-5 9 5-6 15-0 9 5-6 15-0 9 5-1 9 8-4 10 0 5-1 11 00 .5 2-3 11 00 .0 1-4 10 0 .0 1-4 10 0 .0 1-5 10 0 .0 1-6 10 0 .0 0 .0 12 0 0 0 .0 12 0 0 0 .0 12 0 0 0 .0 12 0 0 0 .0 12 0 0 0 .0 12 0 0 0 .0 13 0 0 0 0 .0 14 0 0 0 0 0 .0 15 0 0 0 0 0 0 16 0 0 0 0 0 0	6.1 6.1 .5 .0 6.1 6.1 .5 .0 9 10.7 7.5 .0 9 5.6 15.0 1.9 6 5 1.9 8.4 4.2 0 0 5 2.3 7.9 1 0 0 5 2.3 7.9 1 0 0 0 1.4 2.8 1 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	0-3 4-10 11-21 22-33 34-47 6.1 6.1 .5 .0 .0 2 .9 10.7 7.5 .0 .0 3 .5 1.9 8.4 4.2 .0 6 .0 .0 .5 2.3 7.9 .9 11 .0 .0 1.4 2.8 .5 1.9 .0 .0 .5 2.3 7.9 .0 12 .0 .0 .0 .0 .0 .0 12 .0 .0 .0 .0 .0 .0 12 .0 .0 .0 .0 .0 .0 12 .0 .0 .0 .0 .0 .0 12 .0 .0 .0 .0 .0 .0 13 .0 .0 .0 .0 .0 .0 14 .0 .0 .0 .0 .0 .0 15 .0 .0 .0 .0 .0 .0 16 .0 .0 .0 .0 .0 .0 17 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 .0	6.1 6.1 .5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	0-3 4-10 11-21 22-33 34-47 48+ PCT 6.1 6.1 .5 .0 .0 .0 12.6 2 .9 10.7 7.5 .0 .0 .0 19.2 4 .9 5.6 15.0 1.9 .0 .0 23.4 5 .5 1.9 8.4 4.2 .0 .0 15.0 10 .0 5.1 7.0 .0 .0 12.1 10 .0 .5 2.3 7.9 .9 .0 11.7 11 .0 .0 1.4 2.8 .5 .0 4.7 10 .0 .5 2.3 0.0 .0 .0 1.4 10 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 12 .0 .0 .0 .0 .0 .0 .0 .0 .0 12 .0 .0 .0 .0 .0 .0 .0 .0 .0 12 .0 .0 .0 .0 .0 .0 .0 .0 .0 12 .0 .0 .0 .0 .0 .0 .0 .0 .0 13 .0 .0 .0 .0 .0 .0 .0 .0 .0 14 .0 .0 .0 .0 .0 .0 .0 .0 .0 15 .0 .0 .0 .0 .0 .0 .0 .0 .0 16 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 17 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 18 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

PERIO): (DV	ER-ALL	194	9-197					TABLE	19											
					PERCENT	FRE	QUENCY (F WA	VE HEI	GHT (F	r) VS	WAVE P	ERIOD	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	2.3	5.2	7.3	0.1	3.5	5.0	1.2	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	5
6-7	.0	.0	4.4	10.5	9.0	2.3	1.7	.9	.9	.3	.0	.0	.0		.0	.0	.0	.0	.0	103	6
8-9	.3	1.5	2.3	3.5	2.9	2.0	2.9	.3	.3	.0	.0	.0	.0		.0	.0	.0	.0	.0	55	6
10-11	.0	.6	1.5	2.3	.3	1.2	.3	.0	.3	. 9	.0		.0		.0	.0		.0	.0	25	7
12-13	.0	.0	.9	1.2	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	11	5
>13	.0	.0	.0	.3	.0	.9	.6	.0	.0	.0	.0		.0		.0	.0		.0	.0		8
INDET	3.2	2.0	. 6	1.2		.9	.9	.0	.0	.0	.0				.0	.0		.0	.0	34	
TOTAL	20	32	58	86	59	45	26	6	7	4	0	0	Ö	0	0	Ö	0	0	0	343	6
PCT	5.8	9.3	16.9	25.1	17.2	13.1	7.6	1.7	2.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1978 (OVER-ALL) 1865-1978

TABLE 1

AREA 0028 VALPARAISO 34.45 72.7W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

									Becommence		The Content				
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	PAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		SIG WEA
N NE	.0	.0	5.3	.0	.0	.0	.0	5.3	7.4	:0	15.8	.0	.0		78.9
E SE	.0	.0	22.6	.0	.0	.0	.0	22.6	.0	.0	.0	.0	.0	.0	77.4
S	.0	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	2.5	1.0	2.7	.0	93.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.4	•0	8.3	.0	72.2
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.2	.0	9.1	.0	72.7
TOT PCT TOT OBS:	402	.0	1.2	.0	.0	.0	.0	1.2	.2	.0	6.0	•2	3.0	.0	89.3

TABLE 2

PERCENT	FREQUENCY	DE	WEATHER	DCCURRENCE	RV	HOUR

						CONTROL OF	CAN LEGISLAND	100	CHARLES OF PROPERTY.		Service Contracts				
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603 06609 12615 18621	.0	.0	.0 .0 2.1 2.9	.0	.0	.0	.0	.0 2.1 2.9	.0	.0	8.7 3.7 10.4 2.9	1.0 .0 .0	2.9 3.7 2.1 2.9	.0	87.4 91.6 85.4 91.4
TOT PCT	411	•0	1.2	.0	.0	•0	•0	1.2	.2	.0	6.3	•2	2.9	.0	89.1

TABLE 3

PERCENTAGE PREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

				ED (KN									HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	1.7	3.2	1.1	.1		.0		6.1	7.1	5,9	6.7	5.0	5,8	4.9	14.3	7.2	7.0
NE	.7	1.2	.3		.1	.0		2.2	6.6	1.4	.0	2.3	2.6	2.3	4.8	2.7	1.6
E	.7	.3	.1	.0		.0		1.1	5.2	1.0	.0	1.0	1.2	1.6	.0	1.3	. 3
SE	.7	1.8	2.0		.1			5.2	12.9	4.7	.0	2.9	6.0	7.1	3.6	6.6	3.4
S	3.1	16.3	20.9	5.7	1.1	.1		47.2	13.6	43.0	36.7	52.6	53.9	51.0	25.0	42.3	42.5
SW	2.6	9.4	8.4	1.4	.2	.0		22.1	11.0	25.3	51.7	20.9	17.6	17.0		23.9	25.2
W	1.1	2.1	.6		.0	.0		3.9	6.9	4.4	5.0	2.9	2.5	2.1	.0	5.8	5.5
NW	1.3	2.3	.6		.1	.0		4.3	7.0	5.0	.0	2.5	3.0	3.8	4.8	5.6	7.1
VAR	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.8	• •			• •	•		7.8	.0	9,2	.0	9.8	7.4	10.3	.0	4.6	7.5
TOT DBS	477	880	814	195	40	3	2409		10.7	392	15	438	363	379	21	560	241
TOT PCT	19.8	36.5	33.8	8.1	1.7	.1	2409	100.0			100.0	100.0					100.0

•			

WND DIR	0=6	WIND 7-16	SPEED 17-27		41+	TOTAL OBS	PCT	MEAN SPD	00	HDU1 06 09	12 15	18 21
N	3.4	2.3	,3	.0			6.1	7.1	6.0	5.4	5.4	7.1
NE	1.6	.5	.1	.0	.1		2.2	6.6	1.4	2.5	2.4	2.3
	.9	.2	.0		.0		1.1	5.2	1.0	1.1	1.5	1.0
SE	1.7	1.6	1.6	.2	.1		5.2	12.9	4.5	4.3	6.9	5.6
5	10.0	21.2	12.8	2.8	.4		47.2	13.6	42.8	53.2	49.6	42.4
SW	6.7	10.6	4,1				22.1	11.0	26.3	19.4	18.6	24.3
W	2.5	1.1	.2		.0		3.9	6.9	4.4	2.7	2.0	5.7
NW	2.5	1.5	,2	.1	.0		4,3	7.0	4.8	2.7	3.9	6.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.8						7.8	.0	8.8	8.7	9.8	5.5
TOT DBS	896	939	468	92	14	2409		10.7	407	801	400	801
TOT PCT	37.2	39.0	19.4	2.8			100.0			100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1908-1978 (DVER-ALL) 1865-1978

TABLE 4

AREA 0028 VALPARAISO 34.45 72.7W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21		34-47	48+	MEAN	FREQ	OBS
00603	8.8	11.5	35.1	34.2	8.4	1.7	.2	10.9	100.0	407
90300	8.7	12.5	37.8	32.6	6.7	1.6	.0	10.2	100.0	801
12815	9.8	12.3	35,3	33.8	7.0	1.8	.0	10.2	100.0	400
18821	5.5	11.5	36.5	34.8	9.9	1.6	.2	11.4	100.0	801
TUT	189	288	880	814	195	40	3	10.7		2409
PCT	7.8	12.0	36,5	33.8	8.1	1.7	.1		100.0	

,	CT FRE		OTAL O	DIREC	TION	(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN	G HETG	HTS (FT, NH	>4/8) DN	
WND DIR	0=2	3-4	5-7	8 6	TOTAL	CLOUD COVER	000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	1.3	.2	.7	1.1		4,3	.5	.0	.0	. 3	.9	.0	.0	.0	.0	.0	1.5	
NE	.3	. 4	.3	1.2		5,8	.5	.0	. 3	.0	.7	.0	.0	.0	.0	.0	. 7	
E	.3	.2	.0	.7		5.0	.0	.0	. 3	.0	.3	.0	.0	.0	.0	.0	.6	
SE	1.3	.1	.5	. 3		3,5	.0	.0	.0	. 5	.0	. 2	.0	.0	.0	.0	1.5	
S	34.3	4.4	6.1	7.5		2.4	. 8	.0	.7	2.9	4.1	1.6	. 3	.0	.2	1.0	40.7	
SW	16.9	2.4	2.4	3.6		2,3	. 8	.0	.0	1.0	2.3	. 7	.1	. 3	.1	.3	19.9	
W	.2	.3	1.4	3,1		7.0	.3	.0	.0	1.1	2.4	.2	. 2	.0	.0	.0	.8	
NW	. 3	1.0	1.0	. 8		5.0	.3	.0	.0	.1	.7	.3	. 0	.0	.0	.0	1.6	
VAR	.0	.0	•0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	2.0	2.6		6,3	. 7	.0	.0	.7	2,3	.3	. 3	.0	,0	.0	1.0	
TOT DBS	171	28	44	64	307	3,1	12	0	4	20	42	10	• 3	1	1	. 4	210	307
TOT PCT	55.7	9.1	14.3	20.8	100.0		3.9	.0	1.3	6.5	13.7	3.3	1.0	. 5	.3	1.3	68.4	100.0

TABLE 7

CUMULATIVE	PCT	FREQ	OF	SIMULT	ANEOUS	DCCURRENCE
OF CCTI I	IC ME	PHONE	INL	1 14/81	AND VI	PAV INNI

				VSBY (NM)			
CFILING	• DR	- OR	• DR	- OR	• OR	- OR	• OR	# OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
TR >6500	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
DR >5000	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2
DR >3500	2.2	2.9	3.2	3.2	3.2	3.2	3.2	3.2
OR >2000	3.8	5.4	6.4	6.4	6.4	6.4	6.4	6.4
OR >1000	14.4	18.2	19.5	19.5	19.5	19.5	20.1	20.1
DR >600	17.9	24.3	26.5	26.5	26.5	26.5	27.2	27.2
DR >300	18.5	25.6	27.8	27.8	27.8	27.8	28.4	28.4
DR >150	18.5	25.6	27.8	27.8	27.8	27.8	28.4	28.4
TR > 0	19.2	26.5	30.0	30.0	30.4	30.4	31.9	32.3
TOTAL	60	83	94	94	95	95	100	101

TOTAL NUMBER OF OBSI 313 PCT FREQ NH 45/81 67.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD DBS

38.0 14.1 7.1 4.6 4.0 3.7 2.8 5.5 16.9 3.4 326

-	8	-	 ٠	£	•	

								NUMAT					
	(PRIMARY) 1908-1978 (DVER-ALL) 1865-1978						TAI	BLE 8				ARE	A 0028 VALPARAISO 72.75
		PE	RCENT	PREC I	F WIN	D DIRE	CTION TH VAR	YING V	URRENCE ALUES	F VIS	IBILIT	URRENC	E OF
VSBY (NM)		N	NE	F	SE	s	SW		NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP NO PCP	.0	.0	.0	:0	.0	.0	.2	.3	.0	:9	2.0	
	TOT %	.2	.0	.0	.0	.4	.1			.0	.7	2.0	
1/2<1		.0	.0	•0	.0	.2	.3	.0	.0	.0	.0	.5	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP NO PCP	.2	:0	.0	٥.	0	:0	.0	.0	.0	.0	3,5	
200	TOT &	.6	:i	.0	.0	1.2	.7	:4	i	.0	.5	3.7	
5<10	PCP NO PCP	1.0	.0	.0	.0	6.7	3.4	1.2	1.2	.0	1.5	16.7	
	PCP	.0	.0	,2	.1	7.0	3.4	.0	.0	.0	1.5	17.2	
10+	NO PCP	2.1	2.7	1.5	2,4	40.0	20.2	2.6	1.8	.0	2.7	76.1	

TOT 085 TOT PCT 4.7 3.4 1.9 2.7 49.1 24.8 4.5 3.4 .0 5.5 100.0

VSBY	SPO	N	NE	Ε	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
(MM)	KTS 0-3	.0	.2	.0	.0	.3	.0	.0	.0	•		1.5	OBS
(1/2	4-10			.0	.2	,5	.5	.0	.3	.0	1.0		
4112	11-21	.0	.2				*		.0	.0		1.6	
	22+	.0	•0	•0	.0	.2	.0	.1		.0		.3	
		-1	•0	•0	.0	.0		.0		.0		.2	
	TOT \$	-1	.3	•0	.2	.9	.6	.1	.4	.0	1.0	3.6	
	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.3	.5	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.1		.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	.0	.1	.2	.0	.0	.0	.3	.7	
	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
1<2	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0	7.00	.2	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	0-3	.2	.1	.0	.0	.4	.7	.2	.2	.0	.8	2.6	
2<5	4-10	.4	.1	.0	.0	.5	. 8	.1		.0		2.0	
	11-21	.0	.0	.0	.0	.5	.2	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	TOT \$.7	.2	.0	.0	1.6	1.7	. 3	.2	.0	.8	5.4	
	0-3	.9	.2	.0	.1	.9	.9	.3	.4	.0	2.9	6.5	
5<10	4-10	.9		.0	.1	2.3	1.5	.6	.6	.0		5.9	
	11-21	.2	.0	.0	.0	3.0	1.9	.0	.0	.0		5.1	
	22+	.0	.2	.2	.0	.4	.1	.2	.0	.0		1.0	
	TOT %	1.9	.4	.2	.2	6.5	4.3	1.1	1.0	.0	2.9	18.5	
	0-3	.3	1.1	.5	.6	.9	1.5	.3	.2	.0	4.1	9.5	
10+	4-10	. 8	.7	.4	1.0	9.5	6.8	1.8	. 5	.0		21.4	
	11-21	.3	.0	.2	. 2	22.1	10.6	.3	. 3	.0		34.0	
	22+	.0	.0	.0	.0	4.5	1.6	.1	.2	.0		6.4	
	TOT \$	1.4	1.8	1.1	1.8	37.1	20.5	2.5	1.2	.0	4.1	71.4	
7	OT DBS												611
	nt per	4.1	2.6	1.3	2.1	46.7	27.3	4.0	2.8	.0	9.2	100.0	

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E	o	ŧ	A	٠

PERIOD: (PRIMARY) 1908-1978 (DVER-ALL) 1865-1978

TABLE 10

AREA 0028 VALPARAISU 34.45 72.7W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND DCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	5-1	.0	2.5	3.8	13.9	2.5	.0	.0	.0	3,8	31.6	68.4	79
90300	1.1	.0	1.1	2.3	10.2	3.4	2.3	1.1	.0	1.1	22.7	77.3	88
12615	5.5	.0	.0	11.0	21.9	1.4	.0	.0	.0	1.4	41.1	58,9	73
18621	3.7	.0	1.2	11.0	8.5	4.9	1.2	.0	1.2	.0	31.7	68.3	82
TOT	12	0	1.2	22	13.4	10	3	1	1	1.6	101	221	322

TABLE 11

ANIE 1

		PERCENT	FREQUENCY	, vs84	(MM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DB\$	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	2.8	1.4	.0	4.2	18.2	73.4	143	60300	5,3	9.3	17.3	20.0	62.7	75
90360	2.5	.5	.5	7.0	18.0	71.5	200	06609	1.1	2.3	6.9	16.1	77.0	87
12615	8.5	. 8	.8	4.7	21.7	63.6	129	12615	5,6	8.3	19.4	22.2	58.3	72
18621	1.4	.0	.7	4.7	16.9	76.4	148	18621	3,8	5.1	17.7	15.2	67.1	79
TOT PCT	3.5		.5	33 5.3	115	71.5	620	TOT	3,8	6.1	47 15.0	18,2	209	313 100.0

TABLE 12

ADIE 14

					14	BLE 1	,									IABL	F 10				
		PERCEN	NT FRE	UENCY	UF RE	LATIVE	HUMIC	ITY BY	TEMP	TOTAL	PCT		PERC	ENT FR	EQUENC	Y 0F W	IND DI	RECTION	N BY T	EMP	
TE	MP F	0-29 3	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
7	5/79	.0	.0	.0	.3	. 3	.0	.0	.0	2	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0
7	0/74	.0	.0	.0	.0	.3	1.1	. 3	1.4	11	3.0	.5	. 3	.4	. 3	. 2	.9	.0	.3	.0	.0
6	5/69	.0	.0	.3	.5	2.7	4.3	5.4	3,5	62	16.8	1.5	.5	.7	.7	7.3	3.3	. 7	1.0	.0	1.1
6	0/64	.0	.0	.0	. 5	5.2	11.7	25.8	7.6	187	50.8	2.9	2.4	. 8	1.1	25.3	13.9	1.3	1.0	.0	2.2
5	5/59	.0	.0	.0	.0	1.4	5.4	12.0	8.7	101	27.4	.5	.3	.0	.5	15.8	6.8	1.8	.4	.0	1.4
5	0/54	.0	.0	.0	.0	.0	.3	. 8	.3	5	1.4	.0	.0	.0	.0	.6	. 5	.3	.0	.0	.0
	DTAL	0	0	1	5	36	84	163	79	368	100.0										
	PCT	.0	.0	.3	1.4	9.8	22,8	44.3	21.5			5.4	3.7	1.9	2.6	49.2	26.0	4.1	2.6	.0	4.6

TABLE 15

TABLE 16

	MEANS,	EXTREMES	AND	PERCEN	TILES	OF TE	P (DE	G F) B	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	77	69	68	61	56	53	52	61.6	406
96809	70	67	65	59	55	52	50	59.6	802
12815	75	70	67	61	56	53	53	61.0	379
18821	78	75	71	64	58	55	53	64.0	673
TOT	78	72	58	61	55	53	50	61,5	2260

PERCENT FREQUENCY OF RELATIVE MUMIDITY BY HOUR

R 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL
T1 085
09 .0 1.0 12.2 18.4 51.0 17.3 82 98
09 .0 .0 5.5 22.0 44.0 28.6 84 91
15 .0 1.0 6.9 24.8 42.6 24.8 83 101
21 .0 4.1 12.2 25.5 40.8 17.3 80 98
T 0 6 86 173 85 82 388

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PERIOD: (PRIMARY) 1908-1978 TABLE 17 AREA 0028 VALPARAISO (OVER-ALL) 1805-1978 TABLE 17 3445 72.7H

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	53	57	61	65	69	73	TOT	W	WO
THP DIF	56	60	64	68	72	76		FOG	FDG
9/10	.0	.3	.9	. 9	.0	. 3	7	.0	2.0
7/8	.0	.3	. 6	. 6	. 6	.0	7	.0	2.0
5	.0	.3	2.0	. 9	. 3	.0	12	.3	3.1
5	.0	. 0	3.1	1.7	.6	.0	21	.3	5.7
	.3	1.1	3.4	.0	.0	.0	17	.6	4.3
3	.0	2.6	2.3	1.4	.0	.0	22	.6	5.7
2	.3	4.3	5.7	1.4	.0	.0	42	1.1	10.9
1	.9	6.3	3.7	1.7	.0	.0	44	.0	12.6
-1	.9	3,1	6.0	2.9	. 3	.0	46	1.1	12.0
-1	.3	3,1	7.7	.6	. 0	.0	41	1.4	10.3
-2	2.0	2.3	4.3	.6	.0	.0	32	.3	8.9
-3	.9	2.3	1.7	.0	.0	.0	26	1.1	6.3
-4	.9	2.3	1.4	.3	.0	.0	17	.0	4.9
-5	.3	2.6	.6	. 3	.0	.0	13	.0	3.7
-6	.0	.0	.3	.3	.0	.0	2	.0	.6
-7/-8	.0	.0	.0	. 3	.0	.0	2	.0	. 3
TOTAL	23		153		6			24	326
	-	119	-	48		1	350		-
PCT	6.6	34.0	43.7	13.7	1.7	.3	100.0	6.9	93.1

PERIOD: (DVER-ALL) 1963-1978

TABLE 18

HGT 1-3 4-10 11-21 22-33 34-47 484 PCT 1-3 4-10 11-					PC	T FREQ	OF WIND	SPEED	(KTS)	AND	DIREC	TION V	ERSUS S	SEA HEIG	HTS (FT		
61																	200
1-2								PCT							34-47		
3-4						.0									.0		
7			1.2			•0		1.8			.0				.0		
8-9								• ;			.0				• 0	.0	.2
10-11								• 0							.0		.0
10-11						.0		.0									
12-16		• 0				.0		.0							.0		
13-16						•0		.0			.0				.0		
20-22 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		• 0				• 0		• 0			.0	.0			.0		
20-22								• 0			•0				.0	.0	.0
23-22		• 0	.0					• 0						.0	• 0		.0
28-32			.0					• 0							.0		.0
333-40			.0					.0				.0		.0	.0		.0
41-48 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		• 0	.0		.0	.0		• 0			• •	.0		.0	.0		.0
#GT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2								• 0			• •				.0		
71-86			.0					• 0			•0				.0	.0	.0
##GT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11			.0					• 0							.0		
87* 0 10 10 10 10 10 10 10 10 10 10 10 10 1								• 0							.0		
TOT PCT								• 0				.0			.0		
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-2 12-2 12-2 12-2 12-2 12-2 12-2 12-2	TOT DCT		1.7					2.0			.0	.0			.0		
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-34 4-7 48+ PCT 1-3 4-10 11-21					••	••	••	•••			••		••	••	••		
\$\begin{array}{cccccccccccccccccccccccccccccccccccc	HGT	1-3	4-10	11-21	E 22-33	34-47	484	PCT			1-3	4-10	11-21	SE	34-47	484	DCT
1-2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0															0		
5-6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								• 0					.,		.0		1.4
5-6								. 0							• 0		1.7
10-11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								. 0							.0		.0
10-11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								.0							.0		.0
10-11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8-9		.0					.0							• 0	.0	.0
13-16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0	.0					.0							.0		
13-16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			.0					. 0			.0	. 0	.0		.0	.0	
23-25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13-16	-0	. 0			.0		. 0			.0		.0		• 0	. 0	.0
23-25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			.0					.0			.0		.0	.0	.0	.0	.0
23-25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			.0					.0					.0	.0	.0	.0	.0
41-48		.0	.0					.0				.0	.0		.0		
41-48		.0	.0			.0		.0			.0		.0	.0	.0	.0	.0
41-48	33-40		.0					.0					.0		.0	.0	.0
49-60			.0					.0					.0		.0	.0	.0
61-70 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0			.0					.0			.0			.0	.0		.0
71-86 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0			.0					.0			.0				.0		.0
87* .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	71-86		.0					.0			.0				.0		
TOT PCT .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0			.0					.0			.0	.0	.0		.0		
			.0								.0	1.2			.0		1.4

PERIOD:	(QVE	R-ALL)	1963-1	978				FEBRUARY				AREA		VALPARA	150
								TABLE 18 (CONT)					34	.45 72	. 7W
				PC	T FREQ C	F WIND	SPEED	(KTS) AND DIREC	TION	ERSUS :	SEA HEIG	HTS (FT)		
HGT	1-3	4-10		5 22-33	34-47	48+	PCT	1-3	4-10	11-21	SW	34-47	48+	PCT	
<1	.0	1.1	11-21	.0	.0	.0	1.1	,6	.3	11-21	22-33	,0	.0	1.5	
1-2	.0	6.0	5.8	.0	.0	.0	11.8	1.2	5.7	2.6	.0	.0	.0	9.5	77.
3-4	.0	3.7	12.1	.5	.0	.0	16.3		1.2	7.1	.2	. 0	.0	8.4	
5-6	.0	. 9	4.4	1.2	.0	.0	6.0	.0	2.1	2.9	1.8	.0	.0	6.9	
7	.0	.5	2.9	2.3	.6	.0	6.3	.0	.2	1.4	.2	. 6	.0	2.3	
8-9	.0	.0	.0	.5	.0	.0	. 5	.0	.0	.0	.2	0	.0	. 2	
10-11	.0	.0	. 6	1.2	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	1.1	1.1	.0	2.1	.0	.6	.0	.2	.2	.0	. 9	
13-16	.0	.0	.0	2.0	.5	.0	2.5	.0	.0	.0	.5	.2	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
23-25	.0	.0	.0	.0	,0	.0	,0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0.	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	12.1	25.9	8.7	2.1	.0	46.9	1.8	10.7	14.6	2.9	. 9	.0	31.0	
				W							NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	122-33	34-47	48+	PCT	PCT
<1	.6	1.1	.0	.0	.0	.0	1.7	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	3.7	.0	.0	.0	.0	3.7	.0	1.8	1.2	.0	.0	.0	3.1	
3-4	.6	.5	.5	.0	.0	.0	1.5	.0	1.4	.0	.0	.0	.0	1.4	
5-6	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	• 0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	•0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	•0	.0	.0	.0	:0	.0	:0	.0	.0	:0	.0	.0	
	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22		.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
23-25	- 0	. 0		•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25 26-32	.0	0					• •	.0	.0	.0	.0	.0	.0	.0	
23-25 26-32 33-40	.0	.0	.0			0									
23-25 26-32 33-40 41-48	.0	.0	.0	•0	.0	•0	.0	.0				.0			
23-25 26-32 33-40 41-48 49-60	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25 26-32 33-40 41-48 49-60 61-70	.0	.0	0 0 0	•0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
23-25 26-32 33-40 41-48 49-60	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	5.4	3.0	1.2	.0	.0	.0	9.5	003
1-2	2.4	19.5	10.1	.0	.0	.0	32.1	
3-4	.6	7.7	19.0	.6	.0	.0	28.0	
5-6	.0	3.0	7.1	3.0	.0		13.1	
7	.0	. 6	4.2		1.2	.0	8,3	
8-9	.0	.0	.0	.6	.0	.0	.6	
10-11	.0	.0	.6	1.2	.0	.0	1.8	
12	.0	.6	.0	1.2	1.2	.0	3.0	
13-16	.0	.0	.0	2.4	.6	.0	3.0	
17-19	.0	. 6	.0	.0	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0		.0	
	-				•	1 1 1 1	•	168
TOT PCT	8.3	35.1	42.3	11.3	3.0	.0	100.0	

PERIOD	: (0	VER-ALL)	195	0-1976	,				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HEI	GHT (F	T) VS	WAVE P	ERIOD	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.2	6.6	5.4	5.8	3.1	2.7	2.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	5
6-7	.0	1.6	2.3	6.2	5.4	2.7	1.9	1.6	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	56	6
8-9	.4	1.2	2.3	2.3	4.3	1.2		.4	1.9	.0	.0	.0		.0	.0	.0	.0	.0	.0	37	7
10-11	.0		1.9	3.5	1.6	2.7	3.5	1.6		.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	8
12-13	.0		1.2	.4	.4	. 8	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
	.0	.0	.0	.4	.0	.4	1.9	.0	1.2	.4	.0	.0		.0	.0	.0	.0	.0	.0	11	11
NOET	1.2	.8	.4	. 8	2.3	1.6	1.9	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
TOTAL	7	28	35	50	44	31	35	11	14	2	0	0	0	0	0	0	0	0	0	257	6
PCT	2.7	10.9	13.6	19.5	17.1	12.1	13.6	4.3	5.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AREA 0028 VALPARAISO 34.65 73.0W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HND DIR	RAIN	RAIN	DRZL	FRZG	SNOW	FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	POG WO POPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNUW	
N	.0	.0	2.9	.0	.0	.0	.0	2.9	.0	.0	15.2	.0	3.8	.0	78.1
NE	.0	.0	2.4	.0	.0	.0	.0	2.4	9.8	.0	19.5	.0	.0	.0	68.3
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.2	.0	.0	.0	77.8
S E	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	11.6	.0	.0	.0	83.7
S	.0	. 2	.4	.0	.0	.0	.0	.7	.0	.2	4.2	.0	6.0	.0	88.9
SW	.0	.5	.9	.0	.0	.0	.0	1.4	.9	.0	6.0	.0	5.1	.0	86.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.1	.0	.0	.0	84,9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	.0	.0	.0	91.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	10.0	.0	.0	.0	•0	10.0	.0	.0	26.7	3.3	16.7	.0	43.3
TOT PCT TOT OBS:	457	. 2	1.3	•0	.0	.0	•0	1.5	.4	.2	8.1	. 2	5.5	.0	84.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	TYPE					OTHER	WEATHER	PHEND	MENA		
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRA BLWG D BLWG S	UST	NO SIG WEA
00603 06609 12615 18621	.0	.0	1.8 2.4 .8	.0	.0	.0	.0	1.8 3.3 .8	.0 .8 .8	.0 .8 .0	5.4 7.3 9.9 8.8	.0 .8 .0	3.6 1.6 6.6 9.6		0	89.3 86.2 81.0 81.6
TOT PCT	470	.2	1.3	.0	.0	•0	•0	1.5	.4	.2	7.9	•2	5.3		0	84,5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KN	DTS)								HOUR	(GMT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21	
N	2.3	4.1	1.4	.5	•0	.0		8.3	7.7	6.9	10.7	7.7	7.3	7.7	10.3	9.6	10.0	
NE	1.0	1.5	.3	:	.0	.0		2.8	5.8	2.1	.0	2.2	3.1	2.9	1.5	3.1	3.9	
£	. 8	. 7				.0		1.5		1.2				2.1		1.5		
SE	1.0	3.4	2.6	.7		.0		7.9	11.5	5.8	3.6		12.3	8.1	11.8	7.4	4.7	
S	4.3	19.0	18.4	3.7	.6	.0		46.0	11.7	43.9	62.5	46.5	49.1	51.0	58.8	41.2	46.5	
SW	2.0	8.4	6.1	.6		.0		17.2	10.1	21.9	12.5	17.8	12.1	13.5	17.6	17.5	20.5	
W	1.6	2.3	.5	.1	.0	.0		4.4	6.2	5,6	.0	3.4	2.6	2,5	.0	7.0	4.4	
NW	1.6	2.7	.9			.0		5,2	7.0	5.5	10.7	4.5	2.6	4.2	.0	8.2	3.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.7							6.7	.0	6,9	.0	8,5	8,0	8.0	.0	4.6	5.4	
TOT OBS	591	1165	836	154	23	0	2769		9.5	449	14	496	398	424	17	676	295	
TOT PCT	21.3	42.1	30.2	5.6	. 8	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WND DIR	0=6	WIND 7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL	PCT	MEAN	00	06 09	12 15	18
						003	FREW	3-5	03	0.4	15	21
N	4.7	2.7	.7	.2	.0		8,3	7.7	7.0	7.5	7.8	9.7
NE	2.0	.7	.1	.2	.0		2.8	5.8	2.1	2.5	2.9	3.3
E	1.2	.3	.0		.0		1.5	4.5	1.2	1.8	2.0	1.2
SE	2.2	3.9	1.3	.4			7.9	11.5	5.8	10.3	8.2	6.5
5	13.0	21.5	10.1	1.4			46.0	11.7	44.4	47.7	51.3	42.9
SW	6.2	7.7	3,2	.2	.0		17.2	10.1	21.7	15.3	13.7	18.4
W	2.9	1.3	.2	.1	.0		4.4	6.2	5.4	3.0	2.4	6.2
NW	3.0	1.8	.4		.0		5,2	7.0	5.8	3.7	4.0	6.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.7						6.7	.0	6.7	8.3	7.7	4.8
TOT DBS	1160	1105	441	62	1	2769		9,5	463	894	441	971
TOT PCT	41.0	39.0	15.9	2.2			100.0		100.0		100.0	

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PERIOD: (PRIMARY) 1908-1978 (DVER-ALL) 1865-1978

TABLE 4

AREA 0028 VALPARAISO 34.65 73.0W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				MIND	SPEED (KNOTS!			907	TOTAL
HUUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
00603	6.7	13.4	43.4	31.3	4.1	1.1	.0	9.4	100.0	463
90300	8.3	14.5	43.1	28.9	4.8	.4	.0	8.9	100.0	894
12615	7.7	16.3	38.5	30.6	6.3	.5	.0	9.6	100.0	441
18621	4.8	14.5	42.1	30.7	6.6	1.2	.0	10.1	100.0	971
TUT	186	405	1165	836	154	23	0	9.5		2769
PCT	6.7	14.6	42.1	30.2	5 6	. 8	. 0		100.0	

TABLE 5

TABLE 6

				-														
,	PCT FRE		OTAL (CLUUD A	TION	(EIGHTHS)							CEILIN					
WND DIR	0=2	3-4	5-7	8 6 085CD	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH 45/8 ANY HGT	TOTAL
N	1.8	.5	.9	3.6		5,0	. 8	.0	.0	. 3	1.6	1.0	.2	.3	.0	.0	2.6	
NE	.3	.0	1.4			6.0	.0	.0	.3	.0	.3	.1	.1	.0	.0	.0	1.4	
E	. 5	.1	.0	. 5		4.1	.3	.0	. 3	.0	.0	.0	.0	.0	.0	.0	. 7	
SE	. 7	.1	.3	. 8		4.5	.3	.0	.0	.0	.3	.3	.0	.1	.0	.0	. 8	
S	25.1	6.4	9.2	12.3		3.6	.5	.2	. 8	3.9	6.6	4.7	1.3	.7	.0	. 5	33.8	
SW	13.2	1.0	4.0			3,1	1.4	.1	. 5	1.5	1.4	1.7	. 3	.0	.0	.0		
W	1.7	.3	.0	. 8		3,1	.3	.0	.0	.0	.3	.2	.0	.0	.0	.0	2.0	
NW	2.4	0	1.0	. 4		3,3	. 3	.0	.0	. 3	.3	. 3	.0	.0	.0	.0		
VAR	.0	.0	.0	. 0		.0	.0	.0	.0	. 5	.0	.0	.0	.0	.0	.0	- 0	
CALM	2.5	.3	.5	2.7		4,5	.3	.0	.0	1.1	1.1	.8	. 0	.0	.0	.0	2.7	
TOT OBS	176	32	63	94	365	3.7	15	1	7	28	43	33	7	4	0	2	227	365
TOT PCT	48.2	8.8	17.3	25.8	100.0		4.1	.3	1.9	7.1	11.8	9.0	1.9	1.1	.0	.5	62.2	100.0

TABLE 7

CUMULATIVE PCT FREQ	OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT	(NH >4/8) AND VSBY (NM)

					VSBY (NM	1)			
C	FILING	• DR	DR	 DR 	• DR	• OR	- OR	• OR	= DR
	FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
• OK	>6500	.3	.3	.5	.5	.5	.5	.5	.5
- OR	>5000	.8	1.1	1.6	1.6	1.6	1.6	1.6	1.6
- OR	>3500	2.4	3.2	3.7	3.7	3.7	3.7	3.7	3.7
- 78	>2000	9.8	12.0	12.8	12.8	12.8	12.8	12.8	12.8
	>1000	17.3	22.1	23.9	23.9	24.2	24.5	24.5	24.5
- OR	>600	21.5	28.7	31.1	31.1	31.4	31.6	31.6	31.6
	>300	22.1	30.1	33.0	33.0	33.2	33.5	33.5	33.5
	>150	22.1	30.3	33.2	33.2	33.5	33.8	33.8	33.8
	> 0	22.3	30.6	33.8	35.1	35.6	36.2	37.5	37.8
	TOTAL	84	115	127	132	134	136	141	142

TOTAL NUMBER OF OBSI 376 PCT FREQ NH <5/81 62.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

31.4 13.9 7,7 3.9 4.4 2.8 4.9 6.4 20.8 3.9

PERIODI	(PRIMARY)	1908-1978	
	INVER-ALL V	1045 1050	

AREA 0028 VALPARAISO 34.65 73.JW

		•	ERCENT	PREC	PITAT	ION MI	TH VAR	ING V	ALUES	FVIS	IBILI	CURRENC	EUF
SBY NM)		N	NE	E	SE	s	SW		NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2	NO PCP	.4	. 2	.2	.0	.0	.4	.4	.2	.0	.9	2.8	
	TOT \$.4	. 2	.2	.0	.0	.4	.4	.2	.0	. 9		
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1241	NO PCP	.0	.0	.0	.0	.1	. 1	.0	.0	.0	.2	.4	
	TOT &	.0	.0	.0	.0	. 1	.1	.0	.0	.0	.2	.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<2	NO PCP	.0	. 2	.0	. 3	.5	.3	.0	.0	.0	.4	1.8	
	TOT *	.0	. 2	.0	. 3	.5	.3	.0	•0	.0	.4	1.8	
	PCP	.2	.1	.0	.0	.2	.0	.0	.0	.0	.0	.4	
<5	NO PCP	.2	.0	.0	.0	1.5	.9	.2	.7	.0	.7	4.2	
	TOT &	.4	.1	.0	.0	1.8	.9	,2	.7	.0	.7	4.6	
	PCP	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	.9	
<10	NO PCP	3.2	.4	.2	. 9	9.8	4.6	.4	. 8	.0	1.5		
	TOT #	3.2	.4	.2	. 9	10.0	4.9	.4		.0	2.0	22.8	
	PCH	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
0+	NO PCP	1.8	1.4	. 5	1.2	37.0	17.0	3,0	3.4	.0	2.2	67.4	
	TOT \$	1.8	1.4	.5	1.2	37.0	17.0	3,0	3,4	.0	2.4	67.6	
	TOT 985												45
	TOT PCT	5.7	2.2	1.0	2.4	49.3	23.7	4.0	5.1	.0	6.6	100.0	

TABLE 9

VSBY	SPO	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(MM)	0-3	.1	•0	.0	.1	.0	.1	.3	.1	.0	.7	1.6	003
<1/2	4-10	. 1	.1	.1	.0	.4	. 5	.0	. 5	.0		1.3	
	11-21	.ŏ	.0	.0	.0	.2	.1	.0	.0	.0		.3	
	224	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.3	•1	.1	•1	.6	.7	.3	-1	.0	.7	3.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	4-10	.0	•0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	•0	.0	.0	.1	.1	.0	.0	.0		•1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0	•0	•1	.1	.0	.0	.0	.1	.3	
	0-3	.0	•1	.0	.0	.1	.1	.0	.0	.0	.4	.7	
1<2	4-10	.0	.0	.0	.1	.2	.1	.0	.0	.0		.4	
	11-21	.0	•0	.0		.6	.2	.0	.0	.0		.9	
	424	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•1	.0	•2	.9	.4	.0	.0	.0	.4	2.0	
	0-3	.3		.0	.1	.3	.5	.1	.0	.0	.6	1.9	
2<5	4-10	. 2	•0	.0	• 1	1.5	.5	.0	.4	.0		2.8	
	11-21	.0	•0	.0	•0	• 7	.1	.0	.1	.0		.9	
	224	.0	•0	.0	•0	.0	.0	.0	.0	.0		.0	
	TOT \$.5	•	•0	.3	2.5	1.1	.1	.5	.0	.6	5.6	
-	0-3	.3	.0	.1	.0	.4	.7	.0	.1	.0	2.0	3.8	
5<10	4-10	1.6	.2	.0	.7	4.8	1.6	.1	.5	.0		9.5	
	11-21	.9	•1	.0	• 1	3.3	1.6	.1	.1	.0		6.3	
	22+	.0	•0	.0	•0	.7	.2	.0	.0	.0		9	
	TOT \$	2.9	.3	•1	.7	9.2	4.1	.3	. 8	.0	2.0	20.5	
	0-3	.7	.5	.1	.1	2.8	7	.5	.6	.0	5.0		
10+	4-10		. 8	.4	.6	10.5	6.9	1.4	1.5	.0		23.0	
	11-21		• 1	.0	• •	18.7	9.1	.1	.7	.0		30.0	
	425	.0	.0	.0	.1	3.6	8	.0	.0	.0		4.5	
	TOT \$	2.3	1.4	.5	1.2	35.6	17.5	2.1	2.9	.0	5.0	68.4	
,	nT u85												684
	TOO TO		2.1		2.5	48.0	22.8	2.8	4.3	-0	8.9	100-0	-

M		•	ш

									MAR	CH						
PERIO	D: (PRIMARY)		978						TABLE	10			AF	EA 0028	VALPARAISQ 4.65 73.0	
					PER	CENT F	REQUEN	CURREN	CEILIN	NH <5/	HTS (F	EET, NH	>4/8) A	ND		
		HOUR (GMT)	000	150 299	300	600	1000	2000	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8		
		60300	3.3	.0	1.1	4.4	8.8	11.0	2.2	.0	.0	1.1	31.9	68.1	91	
		90300	4.2	.0	2.1	6.3	12.6	9.5	1.1	2.1	.0	1.1	38.9	61.1	95	
		12615	2.9	.0	2.9	10.8	12.7	4.9	3.9	2.0	.0	.0	40.2	59.8	102	
		18621	5.4	1.1	1.1	6.5	12.0	10.9	1.1	.0	.0	.0	38.0	62.0	92	

				TA	BLE 1	1						TABLE	12		
			PERCENT	FREQUENCY	VSBY	(NM)	BY HOUR		CUMULAT	IVE PCT	FREQ	OF RAN	IGES OF NH >4/6	VSBY (NM)	AND/DE
	OUR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
(00603	2.1	.0	2.1	4.8	20,5	70.5	146	00603	3.4	5.6	11.2	21.3	67.4	89
(90300	3.6	.9	.9	5.8	17.9	70.9	223	90300	4,3	7.4	17.0	23.4	59.0	94
1	2615	3.8	.0	4.4	5.0	21,4	65.4	159	12615	4.0	6.9	23.8	20.8	55.4	101
1	8621	2.9	.0	1.8	5.9	24.1	65.3	170	18621	5,4	7.6	15.2	22,8	62.0	92
	TOT PCT	3.2	.3	2.1	38 5.4	145 20,8	476 68.2	698 100.0	TOT	4.3	6.9	17.0	83 22,1	229	376 100.0

TOT 15 1 7 27 44 34 8 4 0 2 142 238 380 PCT 3.9 .3 1.8 7.1 11.6 8.9 2.1 1.1 .0 .5 37.4 62.6 100.0

				TA	BLE 13	•									TABL	E 14			
	PERC	ENT F	REQUENCY	OF RE	LATIVE	HUMI	ITY BY	Y TEMP	A1	PCT		PER	CENT FR	EQUENC	Y OF W	IND DIRE	ECTION B	Y TEMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	FREQ	N	NE	E	SE	s	SW		NW VAR	CAL
70/74	.0	. (• • 0	.5	1.2	.5	1.0	.0	13	3.1	.0		-1	.2	1.6	. 2	. 2	.5 .0	
65/69	.0	. (. 2	1.7	6.5	5.6	1.4	65	15.7	:0	,2	.0	.2	7.9	3.3	·2	.9 .0	:
60/64	.0	.0	.0	. 2	2.4	7.5	17.9	10.1	158	38.2	2.5	. 0	1.0	.7	17.1	9.7		.9 .0	
55/59	.0	. (.0	.2	1.0	3.6	19.8	15.9	170	41.1	1.9	1.1	2	1.4	23.0	8.3		.3 .0	3.
50/54	.0	.0		.0	.0	.2	1.0	.7	. 8	1.9	.2			.0	1.4	.3		.0 .0	
TOTAL	0		2	6	26	76	187	117	414	100.0		• •	•••		•••	•-			•
PCT	.0	.0	.5	1.4	6.3	18.4	45,2	28,3			5.4	2,5	1.3	2.5	51.0	21.7	3.5 5	.6 .0	6.
				TARL											TABLE				
,	EANS, E	XIREME	S AND P	FRCENT	ILES O	F TEMP	DEG	F) BY	HOUR			PERC	ENT FRE	GUENCA	OF RE	ATIVE H	MIDITY	BY HOUR	
GMT)	MAX	99%	95%	50%	5%	1%	HIN H		DTAL		HDUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOT
6030	72	70	67	60	55	53		0.4	476		60300	.0	2.6	4.3	17.	50.4	25.6	84	11
6609	70	66	64	59	54	52		8.6	905		90300	.0	. 8	3.4	12.6			87	11
2815	74	69	66	59	54	52		19.6	445		12615	.0	.9	6.0	13.0	46.6		85	11
						54	52 6	2.7			18821								
8621 TOT	79	73 71	69	63	56	52	50 6		867		TOT	.0	2.6	11.3	30.4	39.1	16.5	80	111

PERIOD: (PRIMARY) 1908-1978 (OVER-ALL) 1865-1978

TABLE 17

AREA 0028 VALPARAISO 34.65 73.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE (DEG F)

۷,	2 MIK	-26W	CHE	KAIOKE	01	ENEMEE	INEO FI		
AIR-SEA	53	57	61	65	69	73	TOT		WO
LWb DIE	56	60	64	68	72	76		FOG	FOG
14/16	.0	.0	.2	.0	.2 .0 .2 .5 .2 .2 .1 .0	.0	2	.0	. 5
11/13	.0	.0	.0	1.0	.7	.0	7	. 2	1.5
9/10	.0	.0	.0	.5	. 2	.0	4	.0	1.0
7/8	.0	.5	1.2	.5	.0	.0	8	.0	1.0
6	.0	.0	1.5	.5	.2	.0	2 7 4 8 10	.0	3.1
5	.0	1.0	.7	1.0	. 5	.2	14	.2	3.1
4	.0	1.0	2.2	, 5	. 2	.0	16	. 5	3.4
3	.0	4,8	1.0	1,0	.2	.0	32	1.2	6.5
2 1 0 -1 -2 -3	1.5	4.4	3.9	1.5	1.0	.0	45	.2	10.7
1	2.2	4.4	3.9	2.9	.0	.0	57	. 2	13.6
ō	2.7	4.6	5.6	1.9	.0	.0	61	1.5	13.3
-1	1.2	5,6	2.7	2.2	.0	.0	48	1.0	10.7
-2	1.2	5.6	1.9	2.7	.0	.0	47	1.5	9.9
-3	.5	2.9	1.5	. 2	.0	.0	21	.5	4.6
-4	.7	2.4	1.0	. 2	.000	.0	18	.5	3,9
-5	1.0	2.7	1.0	.2	.0	.0	16	.7	3.1
-6	.2	. 5	.2	.0	.0	.0	4	. 2	.7
-7/-8	.0	.5	.2	.0	.0	.0	2	.0	. 3
-9/-10	.0	. 2	.0	.0	.0	.0	2	.0	378
TOTAL	49	•	111		16			35	378
		169		67	-	1	413		
PCT	11.9		26.9	16.2	3.9	. 2	100.0	8.5	91.5

PERIOD: (DVER-ALL) 1963-1978

TABLE 18

				PC	T FREQ C	F WIND	SPEED	(KTS)	AND	DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)		
				N									NE			
HGT	1-3	4-10	11-21	22-33	34-47	484	PCT			1-3	4-10	17-57	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0			. 5	.0	.0	.0	.0	.0	.5
1-2	.0	1.4	1.4	.0	.0	.0	2.9			.0	. 5	.1	.0	.0	.0	.7
3-4	.0	.9	.0	.0	.0	.0	. 9			. 5	. 1	.0	.0	- 0	.0	.7
5-6	.0	.5	.0	.0	.0	.0	, 5			.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
12	.0	.0	. 0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0
41-48	.0	.0	•0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
TOT PCT	•0	2.9	1.4	.0	.0	.0	4,3			1.0	.7	•1	.0	.0	.0	1.8
				F									SE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0			.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0			.0	.5	.5	.0	.0	.0	1.0
3-4	.0	.5	.0	.0	.0	.0	, 5			.0	.0	.0	.0	0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-23	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0
874	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
		1.6					1.6					. 5		.0	.0	1.0
TOT PCT	.0	1.6	.0	.0	.0	.0	1,6			.0	.5	,5	.0	.0		.0

PAGE 254

									MARCH							
PER IOD:	COVE	K-ALL)	1963-1	978				TABLE	18 (CONT				AREA	34.	VALPARA	
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)			
HGT	1-3	4-10	11-21	5 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+		
	1.4	2.0	.0	.0	.0	.0	3.4		1.2	.7	.0	.0	34-47	.0	1.8	
1-2	.5	5.9	6.9	.0	.0	.0	13.3		.5	3.1	3.5	.0	.0	.0	7.2	
3-4	.5	5.9	8.7	.5	.0	.0	15,6		.0	1.0	4.8	.5	:0	.0	6.4	
5-6	.0	2.0	5.6	.0	.0	.0	7,6		.0	1.2	1.7	.3	• 0	.0	3.4	
7	.0	.5	5.7	.5	.0	.0	6,8		.0	.0	1.6	.6	0	.0	1.6	
8-9	.0	.0	. 5	1.0	.0	.0	1,6		.0	.0	.5	.0	.0	.0	.5	
10-11	.0	.0	1.7	.5	.0	.0	2,2		.0	.0	.4	.0	•0	.0	.4	
12	.0	.0	.5	1.6	.0	.0	2,1		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.6	.0	.0	1.6		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	. 0	.0	.5	.0	. 5		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	- D		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	,0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0	
41-48	.0	. 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
71-86	.0	.0		.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2,5	16.1	29.7	5.7	.5	.0	54.6		1.7	6.0	12.5	1.0	.0	.0	21.2	
				w								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.9	.0	.0	.0	.0	.0	.9		• . 7	1.0	.0	.0	.0	.0	1.7	,
1-2	. 5	. 8	1.0	.0	.0	.0	2,3		. 5	. 8	1.0	.0	.0	.0	2,3	
3-4	. 5	. 4	.0	.0	.0	.0	9		.0	.5	.0	.0	.0	.0	.5	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	• 0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		,0	.0	.0	.0	. 0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.0	1.2	1.0	.0	.0	.0	4.2		1.2	2,3	1.0	.0	.0	.0	4.6	93.2

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
GT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
1	10.9	4.7	.0	.0	.0	.0	15.6	003
-2		13.0					29.7	
		9.4					25.5	
	. 5	3.6			.0			
					.0		8 1	
				1.0	• • •			
		.0			.0		2.0	
		.0			.0			
-16	.0			1.6	.0		1.6	
-19	.0	.0	.0	.0	.5		.5	
-22	.0	.0	.0	.0	.0	.0	.0	
-25	.0	.0	.0	.0	.0	.0	.0	
					.0	.0		
		.0			.0			
					· o			
							•0	
0/*	.0	.0	.0	.0	.0	.0	.0	
								192
PCT	15.1	31,3	46.4	6.8	.,	.0	100.0	
	1 -2 -4 -6 7 -9 -11 2 -16 -19	0-3 1 10.9 -2 2.1 -4 1.6 -6 .5 7 .0 -9 .0 -11 0.0 2 -16 .0 -19 .0 2-19 .0 -22 .0 -22 .0 -80 .0 -80 .0 -80 .0 -80 .0 -80 .0 -80 .0 -80 .0 -80 .0 -80 .0 -80 .0 -80 .0 -80 .0 -80 .0 -80 .0	07 0-3 4-10 1 10.9 6.7 -2 2.1 13.0 -4 1.6 9.4 -6 .5 3.6 7 .0 .5 -9 .0 .0 -11 .0 .0 2 .0 .0 -12 .0 .0 -19 .0 .0 -25 .0 .0 -22 .0 .0 -32 .0 .0 -46 .0 .0 -66 .0 .0 -68 .0 .0 -87 .0 .0	07	1 10.9 4.7 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	07	1 10.9 4.7 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	CT

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PERCENT FREQUENCY OF MEATHER DECURRENCE BY WIND DIRECTION

			P	RECIPI	DITAT	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		SIG WEA
N NE	11.2	2.0	.0	.0	.0	.0	.0	13.3	6.6	.0	10.7	.0	5.1	.0	64.3
NE E	.0	.0	.0	.0	.0	.0	.0	3.7	.0	.0	21.1	.0	7.0		71.9
SE	4.2	.0	.0	.0	.0	.0	.0	4.2	1.1	.0	8.4	4.2	4.2		77.9
S	. 4	.0	1.0	.0	.0	.0	.0	1.4	. 8	.0	6.4	.0	2.3	.0	89.2
SW	. 2	.0	2.5	.0	.0	.0	.0	2.7	.2	.0	13.8	2.7	. 4	.0	80.2
W	.0	.0	2.4	.0	.0	.0	.0	2.4	.0	.0	6.0	7.1	9.5	.0	75.0
NW	. 8	.0	7.6	.0	.0	.0	.0	8.4	2.3	.0	10.7	. 8	12.2	.0	65.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.2	.0	.0	.0	.0	3.2	.0	.0	22.6	.0	9.7	.0	64.5
TOT PCT	1.7	.2	1.7	.0	.0	.0	.0	3.6	1.1	.0	10.1	1.1	4.0	.0	79.9

TABLE 2

DEDCENT	EREDUENCY	OF	WEATHER	OCCURRENCE	RV	HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	1.6 1.4 3.0	.0 .8 .0	2.1	.0	.0	.0	.0	3.1 3.5 4.5 3.0	2.1 2.3	.0	6.3 11.3 15.2 9.0	1.6 .7 2.3	3.9 2.8 4.5 5.0	.0	85.2 79.4 71.2 82.0
TOT PCY	1.7	. 2	1.7	.0	.0	.0	.0	3.6	1.1	.0	10.5	1.1	4.3	.0	79.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

									and the second	service and a service		-					
				ED (KN		10000								(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	*8+	TOTAL	FREQ	SPD	00	03	06	09	12	15	16	21
N	2.0	5.1	2.6	.7	•1	.0		10.5	9.5	10.1	4.7	10,1	8.8	10.1	5.4	12.8	9.7
NE	1.0	2.5		.3				4.5	8.6	4.3	1.6	4.1	4.7	5.9	16.1	4.6	2.7
E	. 8	1.4		.1	.0	.0		2.6	6.4	2,2	6,3	1.6	3,5	3.6	.0	2.5	2.0
SE	1.2	3.2		. 9	.2	.0		8.0	11.5	4.7		5.6	11.2	9.8	.0	9.2	7.9
S	2.9	15.2		4.2	.6	.0		39.3	12.6	39.9	20.3	47.3		40.4			
SW	2.3	7.4				.0		16.5	10.4	19.5		15.4	13.7	13.0			
W	1.4	2.1		.2	.1	.0		4.5	7.9	4,5		3.0					
NW	1.4	3.7		.4	.1	.0		7.4	9.0	6.4							
VAR	.0	.0		.0	.0	.0		.0	.0	.0		.0	.0	.0	.0		
CALM	6.9		• • •					6.9	.0	8.4		6.4	8.4				
TOT OBS	552	1127	847	220	31	1	2778		10.1	451	16	484	391	456		669	
TOT PCT			30.5	7.9	1.1			100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	0-6	#IND 7-16	SPEED 17-27		41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	16 21
NE	4.6	1.3	1:1	:1	:1		10.5	9.5	9.9	9.5	10.0	11.8
•	1.9	.5	.2		.0		2.6	6.4	2.3	2.5	3.5	2.4
SE	2.7	3.2	1,5	.5	.0		8.0	11.5	4.6	8.1	9.5	8.8
5	8.7	19.7	9,2	1.5	.1		39.3	12.6	39.2	44.8	40.0	33.9
SW	5.7	7.4	3,2	.2	.0		16.5	10.4	20.3	14.7	13.1	17.8
W	2.5	1.5	.4	.1	.0		4.5	7.9	4.4	2.7	3.6	6.6
NW	3.2	3.2	. 8	•1			7.4	9.0	6.4	6.0	5.4	10.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.9						6.9	.0	8.8	7.3	8.7	4.7
TOT DBS	1081	1143	465	80	9	2778		10.1	467	875	470	966
TOT PCT	38.9	41.1	16.7	2.9	. 3		100.0		100.0	100.0	100.0	100.0

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PERIOD:	(PRIMARY)	1907-1977
	(UVER-ALL)	1855-1977

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PERCENTAGE	FREQUENCY	DF	WIND	SPEED	BY	HOUR	(GMT)

				MIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-51	55-33	34-47	48+	MEAN	FREQ	OBS
£0300	8.8	9.9	39.8	31.5	8.8	1.1	.2	10.5	100.0	467
06609	7.3	14.2	41.3	29.7	6.7	. 8	.0	9.6	100.0	875
12615	8.7	14.7	40.2	28.9	7.0	.4	.0	9.4	100.0	470
18621	4.7	12.6	40.5	31.5	9.0	1.8	.0	10.8	100.0	966
TOT	191	361	1127	847	220	31	1	10.1		2778
PCT	6.9	13.0	40.6	30.5	7.9	1.1			100.0	

TABLE 5

TABLE 6

							1,000											
PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTMS) BY WIND DIRFCTION MEAN					PERCENTAGE FREQUENCY OF CEILING MEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION													
WND DIR	0=2	3-4	5-7	8 6	TOTAL	COVER	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	1.5	1.0	1.4	5.0		6.0	.7	.0	.5	2.0	2.2	.2	.0	.0	.0	.0	3.2	
NE	.6	.1	1.2	1.5		6,1	. 1	. 3	.0	.1	1.3	. 5	. 3	.0	.0	. 1	.7	
E	. 8	.1	.5	. 3		3,8	.0	.0	.0	.0	.3	.3	.0	.0	.0	• • •	1.0	
SE	.7	1.2	.3	1.6		5.0	. 3	.0	.0	.1	1.0	.6	.0	.0	.0	.0	1.9	
S	21.4	5.0	5.8	7.4		3,2	1.3	.3	. 5	1.8	5.6	. 9	. 5	. 3	.0	.3		
SW	15.5	2.6	2.6	5.4		2.9	1.2	.0	.0	1.2	2.3	1.8	• 1	.0	.0	.0		
W	1.7	.2	1.0	1.4		4.6	. 3	.0	.0	.2	1.0	.0		.0	.0	.0	2.6	
NW	1.0	1.5	1.0	1.6		4.8	. 3	.0	.0	.1	1.6	.1	. 1	.0	.0	.0	2.9	
VAR	.0	.0	•0	.0		.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	.0	.0	
CALM	2.4	.5	1.1	3.0		4.7	. 6	.0	. 5	.0	. 8		. 2	.0	.0	.3	3,5	
TOT 085	168	45	55	100	368	3,8	18	,	6	20	59	19	.,	1	0		234	368
TOT PCT	45.7	12.2	14.9	27.2	100.0	•••	4.9	.5	1.6	5.4	16.0	5.2	1.6	. 3	.0	. 8	63.6	100.0

TABLE 7

CHMIII ATTUE	DOT FORA	OF	CTMIII T	ANIEDIIC	DECHIDOFNE
CUMULATIVE	PLI PREW	ur	2 THAT!	WWEARS	UCCORRENCE
OF CEILIN	IC HETCHT	(NL	1 34/81	AND VE	INN VA

				VSBY (NM)			
CEILING	· DR	• UR	· OR	- OR	- OR	- DR	- DR	- DR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ DR >6500	.5	.8	.8	.8	.8	.8	.8	.8
■ DR >5000	. 8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
■ OR >3500	2.1	2.4	2.4	2.7	2.7	2.7	2.7	2.7
■ DR >2000	5.4	7.2	7.5	7.8	7.8	7.8	7.8	7.8
■ TR >1000	15.3	22.3	23.3	23.6	23.9	24.1	24.1	24.1
■ DR >600	17.4	27.1	28.7	29.0	29.5	29.8	29.8	29.8
■ 7R >300	18.2	28.7	30.3	30.6	31.1	31.4	31.4	31.4
■ OR >150	18.5	29.0	30.8	31.1	31.6	31.9	31.9	31.9
- DR > 0	19.0	30.0	33.0	33.2	34.3	35.4	36.5	36.7
TOTAL	71	112	123	124	128	132	136	137

TOTAL NUMBER OF OBSI 373 PCT FREQ NH <5/81 63.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 OBSCO OBS 35.1 11.3 7.2 8.2 2.8 3.3 3.1 6.4 21.3 3.3 390

PERIDDI	(PRIMARY)	

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			ERCENT	PREC	PITAT	ION WI	TH VAR	ING V	ALUES	F VIS	18111	CURRENC	
VSBY		N	NE	E	SE	5	SW		NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.4	.0	.0	. 2	1.3	1.6	. 1	. 2	.0	1.0	4.8	
	TOT %	.4	.0	.0	. 2	1.3	1.6	. 1	.2	.0	1.0	4.8	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/241		.0	.0	.0	. 2	. 5	1.1	. 1	. 1	.0	.0	1.9	
	TOT &	.0	.0	.0	. 2	.5	1.1	.1	. 1	.0	.0	1.9	
	PCP	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.4	
1<2	NO PCP	.6	. 1	.2	. 2	. 4	.0	.4	.7	.0	.6	3.1	
	TOT \$.6	. 1	. 2	.2	.4	.0	.5	1.0	.0	.6	3.4	
	PCP	.1		.0	.0	.0	.2	.0	.2	.0	.0	.6	
2<5	NU PCP	.7	. 2	.4	. 2	.3	.5	.4	.5	.0	.2	3.4	
	TOT %	. 8	.3	.4	. 2	. 3	.7	.4	.7	.0	.2	4.0	
	PCP	.9	.0	.0	.0	.4	.4	.0		.0	.2	1.9	
5<10	NO PCP	2.2	2.1	1.1	.4	7.7	5.4	. 2	1.7	.0	. 6	21.6	
	TOT %	3.2	2.1	1.1	.4	8.1	5.7	. 2	1.7	.0	1.0	23.5	
	PCP	. 2	.2	.0	.2	.1		.0	.0	.0	.0		
10+	NO PCP	4.3	3.8	1.0	3,2	26.7	14.1	2.6	2.6	.0	3.3		
	TOT %	4.4	4.0	1.0	3.4	26.9	14.1	2,6	2.6	.0	3.3	62.3	
	TOT OBS												523
	TOT PCT	9.4	6.5	2.7	4.5	37.5	23.2	4.0	6.3	.0	5.9	100.0	

TABLE 9

VSBY	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(NM)	KTS												DBS
** **	0-3 4-10	.0	.0	٥.	.1	.3	.4	.1	.1	•0	.8	1.8	
<1/2		.2		• 1	.0	.5	.6	.0	.1	.0		1.5	
	11-21	.1	•0	•0	.0	.3	.3	.0	.0	.0		.6	
	22+ TOT \$.0	•0	•0	•0	1.0	1.3	.0	.0	.0	.8	4.0	
	101 %	.,	•	• 1	•1	1.0	1.3	••		.0		4.0	
	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1/2<1	4-10	.0	.0	.0	.0	.2		.1	.1	.0		.4	
	11-21	.0	.0	.0	.1	.2	.3	.0	.0	.0		.6	
	22+	. 1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.0	•0	•1	.4	.7	.1	.1	.0	.0	1.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
1<2	4-10	.1	.1	•1	.1	. 4	.0	,3	.4	.0		1.5	
	11-21	. 3	.0	.0	.0	.0	.0	.0	.2	.0		.5	
	22+	.4	.1	.0	.0	.0	.0	.0	.1	.0		.5	
	TOT %	. 8	• 1	•1	•1	.4	.0	, 3	.7	.0	.5	3.1	
	0-3	.0	.0	.1	.0	.3	.1	.2	.3	.0	.8	1.8	
2<5	4-10	.3	.1	•0	.1	.1	.5	.2	.1	.0		1.4	
	11-21	.1		•0	.0	.2		.0	.1	.0		.5	
	22+	.2		• 1	.0	.0	.0	.0		.0		.4	
	TOT \$.5	• 2	• 3	•1	.5	.7	.4	.6	.0	.8	4.1	
	0-3	.2	•2	•1	.3	.9	1.4	.0	.4	.0	1.4	4.9	
5<10	4-10	1.5	1.8	• 7		3.2	2.1	.4	1.0	.0	-	10.7	
	11-21	. 9	.3	• 1	.1	2.4	1.9	.0	.2	.0		5.9	
	22+	.5	.1	.0	.2	1.0	.2	.0	.1	.0		2.2	
	TOT #	3.1	2.4	2.0	.5	7.4	5.7	. 4	1.7	.0	1.4	23.7	
	0-3	.4	.2	•2	.7	1.1	1.3	.4	.4	.0	3.8	8.6	
10+	4-10	2.2	1.6	• 1	1.8	8 . 6	6,2	1.4	1.7	.0		23.7	
	11-21	1.3	•7	.4	. 8	13.9	6.5	.5	.6	.0		24.8	
	22+	.0	.4	.0	.2	4.1	2.0	.0	.0	.0		6.6	
	TOT \$	3.9	2.9	.8	3.5	27.7	16.0	2.3	2.7	.0	3.8	63.7	
	OT ORS												782
	OT DET	0.0	6.7	2.2	4.6	27.6	24 4	2 6		0	7 2	100 0	

APRIL

PERIOD:	(PRIMARY)	1907-1977
	(OVER-ALL)	1855-1977

TABLE 10

AREA 0028 VALPARAISO 72.9W

PERCENT	FREQUENCY	ne	CETI TNG	HETAHTE	/ EEGT - NU	V4/81	AND
EVERMI						74101	MAG
	Decus	REN	ICE OF N	H <5/8 B	Y HOUR		

HOUR (GMT)	149	150 299	300 599	999	1999	2000	3500 4999	5000	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
E0300	4.5	.0	.0	5.7	10.2	3.4	1.1	.0	.0	1.1	26.1	73.9	88
90380	6.8	.0	1.0	3.9	14.6	4.9	1.0	1.0	.0	1.0	34.0	66.0	103
12615	4.2	2.1	3.2	6.3	23.2	7.4	1.1	.0	.0	1.1	48.4	51.6	95
18821	3.2	.0	2.1	6.3	15.8	4.2	3.2	.0	.0	.0	34.7	65.3	95
 TOT	18	2	6	21	61	19	6	1	0	3	137	244	381

TABLE 11

TABLE 12

		PERCENT	FREQUEN	ICY VSB	Y (NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
60300	2.3	1.2	3,5	4.7	22.7	65.7	172	00803	4.5	5.7	14.8	14.8	70.5	88
06609	2.5	2.1	2.5	3.3	25.4	64.2	240	06609	6,9	8.9	14.9	21.8	63.4	101
12615	8.0	2.3	2,3	2.8	23,3	61.4	176	12615	4,3	14.0	22.6	31.2	46.2	93
18621	3.4	1.9	4.4	5.3	25.2	59.7	206	18621	3,3	7.7	18.7	20,9	60.4	91
TOT PCT	31 3.9	15	3,1	32	193	498	794 100.0	TOT	18	34 9.1	17.7	83 22,3	224	373

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP
TEMP F 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 0BS FREQ

70/74 .0 .0 .0 .0 .2 .2 .0 .0 .0 .65/69 .0 .0 .0 .2 .2 .2 .7 1.6 1.2 22 3.9 60/64 .0 .0 .0 .0 .1.1 7.7 16.3 8.1 189 33.2 55/59 .0 .0 .0 .0 .1.9 10.2 21.2 17.4 289 50.7 50/54 .0 .0 .0 .0 .1.9 10.2 21.2 17.4 289 50.7 50/54 .0 .0 .0 .0 .0 .0 .4 .5 4.2 6.5 66 11.6 45/49 .0 .0 .0 .0 .0 .0 .0 .2 .2 2 2 .4 7074 .0 .0 .0 .0 .0 .0 .2 .2 2 2 .4 7074 .0 .0 .0 .0 .0 .2 3.7 19.3 43.5 33.3

TABLE 14

TARLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR MAX 99% 95% 50% 5% 1% MIN MEAN TOTAL OBS
00603 74 66 64 58 53 52 48 58.2 468
06609 65 64 62 57 52 50 49 56.9 881
12615 68 64 63 57 52 50 49 57.1 464
18621 80 70 67 60 55 52 46 60.3 911
TOT 80 68 64 58 53 50 46 58.3 2724

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT) 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL (GMT) 083 00403 .0 1.5 17.0 45.2 36.3 87 135 00409 .0 .0 1.9 16.0 39.7 42.3 88 136 12415 .0 .0 4.2 13.9 42.4 39.6 87 144 18621 .0 1.3 7.1 27.1 46.5 18.1 82 155 107 0 2 22 110 256 200 86 590

APRIL

PERIOD: (PRIMARY) 1907-1977 AREA 0028 VALPARAISO (QVER-ALL) 1855-1977 TABLE 17 34.65 72.9M

PCT FREQ DF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

*3	M.K.	-JCM	CHEC		0	FUENCE	IDEO F			
AIR-SEA TMP DIF	52	53 56	57 60	61	65	69	73 76	TOT	FOG	FOG
14/16	.0	:0	.0	.0	.0	200000000000000000000000000000000000000	.0 .2	1	:0	.2 .7 .9 1.8 2.0 2.0 2.9
11/13	.0	.0	.0	.0	. 4	.0	.2	3	.0	.7
9/10	.0	.0	.0	.4	.2	.0	.0	4	.0	.9
7/8	.0	.0	. 9	1.6	.0	.0	.0	11	.7	1.8
6	.0	.0	.2	1.3	.4	.0	.0	9	.0	2.0
5	.0	.0	.7	1.3	.4.2.04.00.04.2.2.7.7.4.2.2.0.2.0.2.0.2.0	.0	.0	9 9	.0	2.0
4	-0	. 0	1.6	1.3	. 0	.0	.2	14	.2	2.9
3	.0	.,	4.4	1.3	. 6	.0	.0	31	. 4	6.4
2	.0	2.0	4.4	1.3		• 0	.0	40	1.6	7.3 12.9 12.2 13.1
i	.0	5.1	3.8	4.7		• •	.0	63	1.1	12.0
å	.0	201	6.9	3.3	• • •	• 2	• 0	59		12.7
·	1.1	2.2	0.7	3.3	•	.0	.0		•:	12.2
-1	1.1	2.4	6.4	2.9	• !	.0	.0	61	.4	13.1
-2	.7	2.9	5.1	1.6	. •	.0	.0	48	.2	10,4
0 -1 -2 -3	.9	3.1	4.0	1.3	.2	.0	.0	43	2.4	7.1
	.9	1.6	1.8	,2	.2	.0	.0	21	.7	4.0
-5	.4	2.0	1.3	.2	.2	.0	.0	19	.4	3,8
-6	.4	. 2	.4	.4	.0	.0	.0	7	.2	3.8
-7/-8	.0	.4	.4	.0	.2	.0	.0	5 2	.0	1.1
-9/-10	.0	.0	.4	.0	.0	.0	.0	2	.2	.2
TOTAL	20	• •	194		21		.0	_	.0	407
		103	• • •	108		2	•	450		
PCT	4.4	22 0	42 1	24.0	4.7	4		100 0	0.6	90.4

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGH		
N NE		
HGT 1-3 4-10 11-21 22-93 34-47 48+ NCT 1-3 4-10 11-21 22-33	34-47 48	+ PCT
<1 .0 1.1 .0 .0 .0 .0 1.1 .0 .2 .0 .0	.0 .	
1-2 .0 3.1 .4 .0 .0 .0 3.5 .4 1.5 .0 .0	.0 .	0 2.0
3-4 .0 .4 1.5 .0 .0 .0 2.0 .0 .4 .5 .0	.0 .	
5-6 .0 .4 1.5 .0 .0 .0 2.0 .0 .0 .1 .0	.0 :	
7 .0 .0 .0 .0 .0 .0 .1 .0 .0 .0	.0 .	
8-9 ,0 ,0 ,0 ,4 ,0 ,0 ,4 ,0 ,0 ,0 ,0	.0 .	0 .0
10-11 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		0 .0
12 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
13-16 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
17-19 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
20-22 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
23-25 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
26-32 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
33-40 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
41-48 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
49-60 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0.0
61-70 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0.0
71-86 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
874 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
TOT PCT .0 5.0 3.5 .4 .0 .0 9.0 .5 2.2 .7 .0	.0 .	0 3.4
E SE		
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33	34-47 48	
0 0 0 0 0 0 0 0 0 0 0	.0 .	0 .9
1-2 .0 .4 .4 .0 .0 .0 .9 .0 .4 .0 .0	.0 .	0 .4
3-4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .9
5-6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .1	.0 .	0 1.0
7 ,3 .0 .0 .0 .0 .3 .0 .0 .1 .0	.0 .	0 .1
8-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0 .	0 .0
10-11 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
12 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
13-16 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
17-19 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0 .0
20-22 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .	0.0
29-25 10 10 10 10 10 10 10 10 10 10	.0 .	0 .0
26-32 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		0 .0
33-40 .0 .0 .0 .0 .0 .0 .0 .0 .0		0 .0
41-48 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0	.0 .	0 .0
49-60 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		0 .0
61-70 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		0 .0
874 .0 .0 .0 .0 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	0 .0
TOT PET 43 4 4 40 00 10 1.2 19 1.3 1.0 11		0 3.3

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PAGE	261

PERTO	s (gv	ER-ALL)	194	9-197	7				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	NE HET	GHT (F	r) vs	WAVE P	ERIOD	(SECOND	5)						
PERIOD (SEC)	<1	1=2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	HEAM
<6	2.2	7.0	9.5	5.3	2.6	4.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	
6-7	.0	.0	4.5	12.3	5.0	4.2	1.4	.3	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	
8-9	.0	.3	. 8	1.1	5.0	4.2	2.2	1.7		.3	.0	.0	.0		.0	.0	.0	.0	.0	58	
10-11	.0	.6	.0	1.4	.6	1.7	3.9	. 8	.6	.0	.0	.0	.0		.0	.0	.0	.0	.0	34	9
12-13	.0	.0	1.1	. 3	.0	.0	.0	.3	.6	.3	.0	.0	.0	0.	.0	.0	.0	.0	.0	9	
513	.0	.0	.0		.3	1.7		.6		.0	.0	.0			.0	.0	.0	.0	.0	16	
INDET	2.2	. 8	.6	.0	1.1		.3	.3	.0		.0	.0			.0	.0	.0	.0	.0	22	
8-9 10-11 12-13 >13 INDET TOTAL PCT	16	31	59	76	53	61	33	14	12	2	0	0			0	0	0	0	0	357	
PCT	4.5	8.7	16.5	21.3	14.8	17.1	9.2	1.9	1.4	.6	.0	.0	.0	0.	.0	.0	.0	.0	.0	100.0	

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(PT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	13.0	3.9	.4	.0	.0	.0	17.3	003
1-2	1.7	18.2	5.6	.0	.0	.0	25.5	
3-4	.0	8,2	16.5	1.7	.0	.0	26.4	
5-6	.0	2,2	9.1	3.0	.0	.0	14.3	
7	.9	.4	6.9	1,3	.0	.0	9,5	
8-9	.4	.0	1.7	1,3	.0	.0		
10-11	.0	.0	.4	1.3	.0	.0	2,6	
12	.0	.0	.0	.0	.4	.0	.4	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
	14.0					•	100.0	231

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(PT)			
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT	
<1	13.0	3.9	.4	.0	.0	.0	17.3	OBS	
1-2	1.7	18.2	5.6	.0	.0	.0	25.5		
3-4	.0	8,2	16.5	1.7	.0	.0	26.4		
5-6	.0	2,2	9.1	3.0	.0	.0	14.3		
7	.9	.4	6.9	1,3	.0	.0	9,5		
8-9	.4	.0	1.7	1,3	.0	.0	3.5		
10-11	.0	.0	.4	1,3	.9	.0	2.6		
12	.0	.0	.0	.0	.4	.0	.4		
13-16	.0	.0	.0	.4	.0	.0	.4		
17-19	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		
874	.0	. 0	-0	-0	.0	.0	.0		

, 1 - 0 -	••				••		• •	• •	• • •	••	••	• • •		• •		
87+	,0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.4	12.7	22.5	7.2	1,3	.0	44.2	1.9	7.6	11.1	1.4	.0	.0	21.9		
		-														
				W							NW				PCT	
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT	
<1	.3	.4		.0	.0	.0	.8	.4	.4	.0	.0	.0	.0	.9		
1-2 3-4 5-6 7	.3	1.2	.0	.0	.0	.0	2.1	.0	.7	.0	.0		.0	.7		
3-4	.0	.4	.7	.0	.0	.0	1.1	.0	.4	1.0	.0	.0	.0	1.4		
5-6	.0	.0	.0	.0	.0	.0	.0	.0 .0 .1	.4	.1	.0		.0	.5		
7	.3	. 0	,3	.0	.0	.0	.7	.1	.0	.0	.0	.0	.0	.1		
8-9	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	,0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	,0	.0	.0	.0	.0	.0	.0	. 0	.0	.0		
13-16	.0	.0	.0		.0	.0	.0	.0	.0	-0	.0	0	.0	.0		
13-16 17-19	.0		• 0	.0	• •	.0	.0	.0	.0	.0	.0	• 0	.0	.0		
20-22	.0	.0	:0	.0	.0	.0	.0	.0	.0	.0	.0	• 0	.0	.0		
22-25	.0	.0	• "	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
23-25 26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	••	• •	.0	.0		
20-32	.0	.0	.0	.0	.0	.0	.0	••	.0		.0	• • •	.0			
33-40	.0	.0	:0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	,0	•0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	1.5	2.1	1.0	.0	.0	.0	4,6	.5	2.0	1.1	.0	.0	.0	3.6	91.2	

				5							SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
< 1	. 4	1.3	.0	.0	.0	.0	1.8	1.4	.4	.4	.0	.0	.0	2.3	
1-2	.0	7.0	3.4	.0	.0	.0	10.4	.0	4.1	1.4	.0	.0	.0	5.5	
3-4	.0	3.1	9.9	1.0	.0	.0	13.9	.0	2.6	3.1	. 8	.0	.0	6.5	
5-6	.0	.9	4.3	2.7	.0	.0	7.9	.0	.4	2.3	.2	.0	.0	3.0	
7	.0	.4	3.7	1.1	.0	.0	5,3	.0	.0	2.9	.2	.0	.0	3.1	
8-9	.0	.0	1.2	.7	.0	.0	1.9	.4	.0	.5	.2	.0	.0	1.2	
10-11	.0	.0	.0	1.3	.9	.0	2.2	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.0	.0	.4	.0	.4	.0	.0	.4	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	0000000000	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	12.7	22.5	7.2	1.3	.0	44.2	1.9	7.6	11.1	1.4	۰.	.0	21.9	
				w							NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.4	.0	.0	.0	.0	. 8	.4	.4	.0	.0	.0	.0	.9	
1-2	. 9	1.2	.0	.0	.0	.0	2.1	.0	.7	.0	.0	.0	.0	.7	
3-4	.0	. 4	.7	.0	.0	.0	1.1	.0	.4	1.0	.0	.0	.0	1.4	
5-6	-0	. 0	0	-0	.0	.0	.0	.0	.4	.1	.0	.0	-0	. 5	

APRIL PERIOD: (DVER-ALL) 1963-1977 AREA 0028 VALPARAISO 34.65 72.9W TABLE 18 (CONT) PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

AREA 0028 VALPARAISO 34.55 73.0W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			p	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
HND DIR	RAIN	RAIN	DRZL	FRZG	SNOW		HATL	PCPN AT OB TIME	PCPN PAST	THDR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE		
N NE	10.4	4.6	3.8	.0	.0	.0	.0	17.8	4.6	.0	10.2	.0	1.8	:0	65.6
E SE	17.6	.0	1.1	.0	.0	.0	.0	22.1	.0	.0	17.6	.0	.0	.0	60.3
SW	.0	.6	.0	.0	.0	.0	.0	1.3	.6	.0	5.4	.0	3.3		93.1
W NW VAR	5.6	.6	8.0	.0	.0	.0	•0	14.2	9.0	.0	7.4	.0	.0	.0	67.3
CALM	4.3	.0	.0	.0	.0	.0	•0	4.3	.0	.0	21.3	.0	2.1	:0	72.3
TOT PCT	4.8	1.7	2.0	.0	.0	.0	•0	8.3	2.6	.0	8.9	.2	1.3	.0	78.6

TABLE 2

PERCENT	FREQUENCY	OF	WEATHER	DCCURRENCE	RY	HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	4.6 3.9 4.0 5.4	1.9 .0 3.2 1.6	.0 .7 4.8 1.6	.0	.0	.0	.0	6.5 4.6 11.1 8.5	2.0 3.2 3.9	.0	11.1 10.5 11.1 14.7	.0 .7 .0	1.9 2.0 .0	.0	80.6 80.3 74.6 72.1
TOT PCT	4.5	1.6	1.7	.0	.0	.0	.0	7.6	2.3	.0	11.8	•2	1.2	.0	76.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	D SPE	ED (KN	DTS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N NE	2.1	8.3	5.5	1.8	• 5	•1		18.2	11.9	17.4	20.8	19.8		15.8	32.1	21.2	16.9
E	. 8	2.1	.3	.1	.0	.0		3.3	6.9	1.2	8.3	2.5	5,3	4.7	.0	3.5	2.4
SE	1.4	4.7	2.9	1.0	• 1	.0		10.1	10.7	7.4	.0	9.1	13.0	13.1	.0	10.3	7.5
S	3.4	12.4	11.1	2.5	,2	.0		29.6	11.2	30.6	22.9	31.9	30.8	30.6	44.6	24.0	33.5
SW	1.7	6.2	2.8	.7		.0		11.4	9.4	15.1	27.1	11.0	11.4	7.5	12.5	10.5	13.5
W	1.2	2.3	.9	.4	. 1	.0		5.0	9.5	5.3	.0	4.5	4.8	2.8	.0	6.3	5.7
NW	1.5	4.3	3.2	1.1	. 2			10.2	11.6	9.9	10.4	7.9	8.4	10.0	.0	12.7	11.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0	8.2	8.3	7.0	5.0	6.5	.0	3.2	3.3
TOT OBS	571	1305	859	240	35	6	3016		10.1	461	12	525	460	459	14	748	337
TOT PCT	18.9	43.3	28.5	8.0	1,2	. 2		100.0	_	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

WND DIR	0=6	7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL OBS	PCT	MEAN	00	06 09	12 15	18
N	6.1	7.5	3,4	1.0	.2		18.2	11.9	17.4	17.8	16.3	19.8
NE	3.2	2.5	.8	.1			6.8	9.3	4.8	6.0	8.9	7.4
E	2.1	.9	.2	.1	.0		3.3	6.9	1.4	3.8	4.5	3.2
SE	3.9	3.8	2.0	.4	.0		10.1	10.7	7.2	10.9	12.7	9.4
SE	8.9	14.1	5,8	. 6			29.6	11.2	30.4	31.4	31.0	27.0
SW	4.7	5.2	1.4	. 2			11.4	9.4	15.4	11.2	7.7	11.5
W	2.6	1.5	.6	.2			5.0	9.5	5.1	4.7	2.7	6.1
NW	3.4	4.3	1.9	.6			10.2	11.6	9.9	8.1	9.7	12.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.4		•		•		5.4	.0	8.2	6.1	6.3	3.2
TOT OBS	1217	1199	484	104	12	3016		10.1	473	985	473	1085
TOT PCT	40.4	39.8	16.0	3.4	.4		100.0			100.0		

PERIOD:	(PRIMARY)	1907-1977

AREA 0028 VALPARAISO 34.55 73.0W

		-						
PERCENTAGE	FREQUENCY	OF	MIND	SPEED	BY	HOUR	(GMT)	

HOUR	CALM	1-3	4-10	11=51 MIND		KNOTS) 34-47	48+	MEAN	PCT	TOTAL
£0300	8.2	14.2	42.1	26.6	7.8	.6	:1		100.0	473 985
12615	3.2	11.8	45.7	28.1	8.0	1.7	.4	10.0	100.0	473
TOT	164	407	1305	859	240	35		10.1	100.0	3016
PCT	5.4	13.5	43.3	28.5	8.0	1.2	. 2		100.0	

TABLE 5

	TAGE >											71	ABLE 6					
	PCT FRI	EQ OF	TOTAL BY WIN	CLOUD A	TON	(EIGHTHS) MEAN			PERCEN	TAGE I	REQUEN	ICY OF	CEILIN	G HEIG	HTS E	FT,NH IRECTI	>4/8) ON	
WND DIR	0=2	3-4	5-7	₽ € 085CD	TOTAL	COVER	149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N NE	1.8	2.4	5.6	14.2		6.6	1.5	.9	2.8	4.2	4.5	2.2	1.8	.0	.5	.2	5.2	
E SE	1.2	.0	.5	1.0		5.3	.0	.0	. 3	.2	.6	.0	.0	.0	.1	.0	1.8	
S	15.0	5.6 1.8	1.9	5.5		3.3	.2	.0	,3	.5	2.5	3.1	.2	.0	.0	:0	24.2	
W NW	1.4	1.2	1.5	1.7		5.3	.1	.0	.3	1.0	2.2	.5	.3	.0	.0	.0	2.1	
CALM	3.1	.0	1.5	5.2		5,2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	••1	
TOT DBS	28.6	12.9	71	119	325	4.9	8	.0	19	30	48	27	1.5	.6	3	.0	168	325
				•0.0	100.0		2.5	1.2	5,8	9.2	14.8	8.3	4.3	.6	.9	.6	51.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

				VSBY (NA	1)			
CEICING	- DR	• DR	 OR 	- OR	- OR	- DR	· DR	= DR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ DR >6500	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
■ DR >5000	1.5	1.8	2.1	2.1	2.1	2.1	2.1	2.1
■ DR >3500	4.5	5.7	6.3	6.3	6.3	6,3	6.3	6.3
■ RR >2000	10.7	14.0	14.6	14.6	14.6	14.6	14.6	
■ DR >1000	20.5	27.1	28.9	29.2	29.2	29.2	29.5	14.6
- OR >600	24.4	35.4	38.1	38.7	38.7	39.0		29.5
■ DR >300	26.2	39.0	42.9	43.8	43.8	44.6	39.3	39.3
. OR >150	26.5	39.6	43.8	44.9			44.9	44.9
- OR > 0	26.5	39.6			44.9	45.8	46.1	46.1
TOTAL			44.6	46.1	46.4	47.6	48.2	49.4
IDIAL	89	133	150	155	156	160	142	144

TOTAL NUMBER OF DBS: 336 PCT FREQ NH <5/8: 50.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 08SCD 08S 21.5 8.8 7.1 7,9 5,9 3.1 3,7 8.2 31.2 2,5 353

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1855-1977 AREA 0028 VALPARAISO 34.55 73.0W

IMORE

		P	ERCENT	PREC	IPITAT	ION WI	TH VAR	AINE A	ALUES	E OR N	IBILI	TY	E OF
VSBY (NM)		N	NE	E	SE	s	SW	W	NM	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	1.3	.3	.2	. 0	.4	.2	.0	.1	.0	1.1	3.7	
	TOT %	1.3	.3	, 2	.0	.4	. 2	.0	.1	.0	1.1	3.7	
	PCP	.0	.2	.0	.0	.6	.0	.0	.0	.0	.0	.2	
1/241		.2	.0	.2	. 2	.0	.0	.0	.0	.0	.0	.7	
	TOT \$.2	. 2	.2	.2	.0	.0	.0	.0	.0	.0	.9	
	PCP	.7	.0	.4	.2	.2	.1	.0	.0	.0	.0	1.3	
1<2	NO PCP	. 2	.1	.2	. 2	.4	.2	.0	.0	.0	.0	1.3	
	TOT \$. 8	.1	,7	.2	.6	.3	.0	.0	.0	.0	5.6	
	PCP	1.1	.2	.2	.1	.2	.0	.0	.4	.0	.0	2.2	
2<5	NO PCP	.4	.0	.2	.0	.5	.3	.0	.2	.0	.4	2.2	
	TOT \$	1.5	. 2	.4	. 1	. 8	.3	.0	.7	.0	.4	4.4	
	PCP	1.4	. 3	.2	.2	.0	.0	.0	.8	.0	.0	2.9	
5<10	NO PCP	4.3	2.6	.1	1.7	3.5	1.3	. 8	2.9	.0	3.1	20.2	
	TOT \$	5.7	2,9	.3	1,9	3.5	1.3	. 8	3.7	.0	3.1	23.1	
	PCP	.5	.3	.0	.0	.0	.0	.0	.1	.0	.0	.9	
10+	NO PCP	11.3	4.0	1.9	2.6	23.4	8.0	3,5	4.4	.0	5.3	64.4	
	TOT %	11.8	4.3	1.9	2.6	23.4	8.0	3,5	4.5	.0	5,3	65.3	
	TOT 085												455
	TOT PCT	21.4	8.0	3.7	5,0	28.7	10.1	4,3	8.9	.0	9,9	100.0	

TABLE 9

				PERCEN	T FREC	DF WI	ND DIR	ECTION S OF V	AZ MI	ND SPE	ED			
VSBY (NM)	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL	
•	0-3	.4	•1	.0	.0	.1	.0	.0		.0	.7	1.5		
<1/2	4-10	.2	• 2	.1	.0	.3	.0	.1		.0		1.0		
	11-21	.3		.0	.0	.1	.0	.0	.0	.0		.4		
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1		
	TOT %	.9	• 4	.1	•0	.6	.1	.1	.1	.0	.7	3.1		
	0-3	-1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3		
1/2<	4-10	.0	• 1	. 2	.1	.0	.0	.0	.0	.0		.4		
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1		
	22+	.1	•0	.0	.0	.0	.0	.0	.0	.0		.1		
	TOT *	.4	•2	•2	.1	•0	.0	.0	.0	.0	.0	1.0		
	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1		
1<2	4-10	.4	•0	.4	.0	.1	.1	.1	.0	.0		1.3		
	11-21	.3	• 1	.0	.1	.3		.0	.0	.0		.9		
	22+	.2	• 1	.0	.0	• 0	.0	.0	.0	.0		.3		
	TOT %	1.0	•2	.4	•1	.5	.3	.1	.0	.0	.0	2.7		
	0-3	.0	.0	.1		.0	.0	.0	.0	.0	.3	•4		
2<5	4-10	.7	•1	• 1	.0	.2	.2	.1	.0	.0		1.6		
	11-21	• 7	.2	.0	• 1	.4	.1	.0	.3	.0		1.8		
	22+	.7	• 1	.0	.0	.0	.0	.1	.3	.0	_	1.2		
	TOT \$	2.1	• 4	.3	•2	.6	.3	.2	.6	.0	.3	5.0		
	0-3	.3	.6	.0	.1	.6	.4	.1	.4	.0	2.4	4.9		
5<10		1.5	.8	.4	1.4	1.4	1.1	. 4	1.1	.0		8.2		
	11-21	2.1	•7	.0	.0	1.0	.1	.3	.7	.0		5.0		
	22+	.5	•0	•0	.0	.1	0	.0	.2	.0		.9		
	TOT %	4.4	2.2	•4	1.6	3.2	1.7	. 0	2.5	.0	2.4	19.0		
	0-3	.9	.4	.3	.4	1.4	.9	.6	.0	.0	4.6	9.4		
10+	4-10	6.4	2.0	1.5	2.0	9.8	5.9	2.2	2.2	.0		32.1		
	11-21	4.1	1.8	.0	.4	11.7	3.3	.3	1.6	.0		23.3		
	22+	.6	• 2	.1	.0	2.8	. 5	.1	.1	.0		4.4		
	TOT %	12.0	4.4	2.0	2.8	25.7	10.6	3.2	4.0	.0	4.6	69.2		
	TOT 085		-										679	
	TOT PCT	20.8	7.8	3.4	4.9	30.5	13.0	4.5	7.1	.0	8.0	100.0		

PERIOD:	(PRIMARY)	1907-1977

AREA 0028 VALPARAISD 34.55 73.0W

PERCENT	FREQUENCY OF	CEILING	HEIGHTS	(FEET, NH	>4/8)	AND
	DECURRE	NCE OF N	H <5/8 BY	HOUR		

									-				
HOUR (GMT)	000 149	150 299	300 599	600	1999	2000	3500 4999	5000	6500	8000+	TOTAL	NH <5/8	TOTAL
E0300	5.4	1.4	4.1	9.5	12.2	9.5	1.4	.0	2.7	.0	45.9	54.1	74
06609	3.2	.0	4.2	9.5	15.8	9.5	6.3	1.1	.0	2.1	51.6	48,4	95
12615	3.2	2.1	5.3	10.5	16.8	8.4	5.3	1.1	1.1	.0	53.7	46.3	95
18621	1.2	1.2	8.3	8.3	13.1	4.8	2.4	.0	.0	.0	39.3	60.7	84
TOT	3.2	1.1	19	9.5	14.7	28	14	.6	.9	2	167	181	348

TABLE 11

TABLE 12

		PERCENT	FREQUENCY	VSBY	(NM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
E0300	4.3	.0	1.4	3.6	18.1	72.5	138	00803	5.6	12.7	23.9	23.9	52.1	71
06609	2.5	1.7	2.1	5.0	22,5	66.3	240	90360	3,3	8.9	21.1	35,6	43.3	90
12615	3.7	1.9	3.7	9.3	21.0	60.5	162	12815	3,2	12.8	27.7	27.7	44.7	94
18621	3.1	1.0	4.6	6.7	18.5	66.2	195	18821	1,2	14.8	24.7	19.8	55.6	61
TOT	3.3	1.2	3.0	6.1	20.3	486	735	TOT	3,3	12.2	82	27.1	163	336

TABLE 13 PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ TEMP F .2 .4 .7 .0 .4 2.4 8.5 5.5 3.5 10.5 23.4 15.1 .9 4.4 13.8 7.0 .2 .4 .9 .2 .0 .0 .4 .0 .24 83 218 127 5.3 18.2 47.7 27.8 .0 .0 .0 .0 .0 .0 .2 .0 .0 .3 .7

	PERC	ENT FR	EQUENC	Y OF	MIND DI	RECTIO	N BY T	EMP	
N	NE	E	SE	S	124	W	NW	VAR	CALM
5.2	1.5	.0	.3	5.0	.1	.2	.3	.0	.0
5.2	1.5	.2	.2	5.0	.7	.5	2.8	.0	1.3
11.9	3.0	3.0	2.6	16.2	5.4	3.0	2.7	.0	4.6
4.2	4.0	.8	1.9	4.9	3.0	.4	1.2	.0	5.9
.0	.2	.0	.4	.5		.0	.0	.0	.4
.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
91.2	8.8	4.0	8.4	27.5	9.2	4.0	7.0	- 0	19.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR 66 68 75 99% 64 63 63 66 61 61 64 56 56 58 50 50 53

u			.,,	HUUK	
	18	MIN	MEAN	TOTAL	
				DBS	
	50	48	56.7	483	
	47	43	55.8	1008	
	48	41	35.9	480	
	50	48	58.3	1050	
	4.0	4.			

TABLE 16 PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	HEAN	TOTAL
00603	.0	.9	5,5	17.3	43.6	32.7	85	110
90300	.0	.0	5.9	13.7	52.3	28.1	85	153
12615	.0	.0	4.2	15.3	50.8	29.7	86	118
18821	.0	4.4	5.8	24.1	47.4	18.2	81	137
TOT	0	7	28	91	253	139	84	518

YAM

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1855-1977 E 17 AREA 0028 VALPARAISO 34.55 73.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49 52	53 56	57 60	61	68	69 72	73 76	TOT	FOG	FOG
14/16	.0	.0	:0	.0	.2	.0	:0	:0	1	0000202027	.2 .2 .2
11/13	.0	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
9/10	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
7/8	.0	.0	.0	.7	.0	.2	.0	.0	6	.2	1.2
6	.0	.0	.0	.0	. 2	.2	.0	.0	4	.0	1.0
6	.0	.0	.0	1.9	1.2	.2	.0	.0	14	. 2	3.2
4	.0	.0	.5	1.9	1,9	.0	.0	.0	6 4 14 18	.0	1.0 3.2 4.4
3	.0	.0	.5	1.9	1.0	.0	.0	.0	14	2	3.2
,	.0	.2	1,5	5.1	2.2	.2	.0	.0	38	• 7	8.5
i	.0	.2	5.6	7.5	2.7		. 0	.0	66	.7	8.5
•	.0	1.0		8.0		.0	••	.0	69	1.2	15.5
	•0	1.0	6.8	8.0	• • •	• • •	.0	• •	0.4	1.6	15.5
-1	• 0	• 7	4.9	6.8	.5	.2	.0	.0	54	1.9	11.2
-2	.0	.5	4.1	2.9	.2	.0	. 2	.0	54 35	.7	7.8
2 1 0 -1 -2 -3	.5	2.4	5.3	1.9	.7	.0	.0	.0	45	1.0	10.0
-4	.0	.7	3.6	1.5	.0	.0	.0	.0	24	1.0	10.0
-5	.2	.5	1.2	1.2	.2	.2	.0	.0	15	.5	3.2
-6	.0	.0	1.5	.2	.0	.0	.0	.0	7	.0	1.7
TOTAL	.0	-	146	••	49		1	• •		35	377
		26	240	175		2.2		1	100-0		-
PCT	1.2	4.3	25 4	42.5	11.0	2.2		. 5	100.0	8.5	91.5

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

				PC	T FREO	OF WIND	SPEED	(KTS)	AND DIRE	TION V	ERSUS S	EA HEIG	HTS (FT		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0		,5		.5	.0	.0	.0	. 0	.0	. 5
1-2	.4	4.3	1.0	.0	.0	.0	5,7		.0	1.1	1.0	.0	.0	.0	2.1
3-4	.0	3.1	4.9	.5	.0	.0	8.5 5.0 2.5		.0	.1	1.9	.0	.0	.0	2.0
5-6	.0	.4	4.1	.5	.0		5.0		.0	.1	.1	.5	.0	.0	. 8
7	.4	.4	1.4	.0	.0	.4	2,5		.1	.1	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.5	.0		,5		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.5	.0	.0	, 5		.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.5	.0	. 5		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0
26-32 33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	-0	. 0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	-0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	-0	. 0
71-86	.0	.0	-0	.0	.0	.0	.0		.0	.0	.0	.0	.0	-0	. 0
67+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	-0	.0
TOT PCT	1,3	8.2	11.4	2.0	. 5	.4	5 5 0 0 0 0 0 0 0 0 0		.6	0 .0 .0	3.0	.5	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	.0 .0 .0
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.6	.0	.0	.0	.0	.0	.6
1-2	.4	.0	.0	.0	.0	.0	• •		.4	1.1	.0	.0	• 0	.0	1.5
3-4	.0	.5	.0	.0	.0	.0			.0	.6	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	• 0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	• 0	. 0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	. 0	• 0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	. 0	.,
17-19	.0	.0	.0	.0	.0	-0	.0		.0	.0	.0	.0	• 0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		-0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	:0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	:0	•0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	:0	.0		.6
41-48	.0	.0	.0	.0	.0	.0	• 0		:0	.0	.0	:0	•0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0		.0	.0	.0
61-70	:0	.0	.0	.0	:0	.0	.0		.0	.0		.0	.0	.0	.0
71-86	:0	.0	.0	.0	:0	.0	.0		.0	.0	.0	.0	.0	.0	.0
874	:0	.0	.0	.0	:0	.0			.0	.0	.0	.0	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	.0
B7+ TOT PCT	.4	.5	.0	.0	:0	.0	.0		1.0		.0	.0	.0	.0	.0
TUT PCT	. 4		.0	.0	.0	.0	. 9		1.0	4.0	.0	.0	.0	.0	2.8

PERIOD: (OVER-ALL)	1962-1977	MAY	AREA 0028	VALPARAISO
TENSOR TOTAL REE	1.03-111	TABLE 18 (CONT)		.55 73.0W
		PCT FREQ OF WIND SPEED (KYS) AND DIRECTION VERSUS SEA HEIGHT	S (FT)	

								TABLE 18 (CONT					34,55	73	.OW
				PC	T FREQ (F WIND	SPEED	(KTS) AND	DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)			
HGT	1-3	4-10	11-21	\$ 22-93	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	484	PCT	
<1	.9	1.5	1.0	.0	.0	.0	3.4		.0	.5	.0	.0	.0	.0	.5	
1-2	.8	2.4	2.1	.0	:0	.0	5,3		.0	2.0	.4	.0	.0	.0	2.4	
3-4	.0	4.4	5.4	.0	.0	.0	9.8		.0	1.1	:1	.0	·o	.0	1.3	
5-6		1.0							.0	1.0	.5	.0	.0	.0	1.6	
7	.0	1.8	5.0	.4	.0	.0	6,4		.0	1.3	.5	.1	• • •	.0	1.6	
8-9	.0		4.0	.5	.0	.0	6,3		.0		.0	.0	.0	.0		
10-11	.0	.0	.0	.5	.0	.0	5		.0	.0	.0	.0	• 0	.0	.0	
	.0	.0	.5	.5	.0	.0	1.0					.0	.0			
13-16	.0	.0	.0	• 4	.0	.0	:5		.0	.0	.0	• 1	.0	.0	.1	
17-19	.0	.0	.0	.0	.5	.0	,3			• •	.0	.0	.0	. 0	.0	
20-22	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		• •	.0	
23-25	.0	.0	.0	.0	00000	.0	000000		.0	.0	.0	.0	• 0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• •	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	••	.0	.0	
49-60	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	• •	.0	.0	
61-70	.0	.0	.0	•0	.0	.0	.0		.0	.0		.0	• • •		.0	
71-86	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	••	.0	.0	
	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	
TOT PCT	0	0	0	.0	.0	.0	.0		.0	5.9	1.5	.3	000000000000000000	.0	7.7	
וטו פנו	1.6	11.1	18.1	2.3	• • •	.0	33,5		•0	*,1	1.2	.,	••		1.1	
				w								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.5	.0	.0	.0	.0	.0	, 5		.0	.0	.0	.0	.0	.0	.0	
1-2	.0	. 8	.0	.0	.0	.0	, 8		. 1	2.4	1.0	.0	.0	.0	3.5	
3-4	.0	.4	.0	.0	.0	.0	. 4		.0	1.8	3,3	.0	.0	.0	5.0	
5-6	.0	.5	.0	.0	.0	.0	. 5		.0	.0	1.3	-0	.0	.0	1.3	
7	.0	.5	.0	.0	.0	.0	. 5		.0	.0	.6	.5	.0	.1	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.5	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	55000000000		.0	.0	.0	.5	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	0	0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	2.1	.0	.0	.0	.0	2,6		.1	4.1	6.2	1.0	.0	.1	11.6	88.4
	•		••						-							

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(#1)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	17.1	2.0	1.0	.0	.0	.0	20.0	403
1-2	2.0	13.7	5.4	.0	.0	.0	21.0	
3-4	.0	11.7	15.1	,3	.0	.0	27.3	
5-6	.0	2,0	10.7	1.5	.0	.0	15.1	
7	.5	3,9	6.3	1,0	.0	.5	12.2	
8-9	.0	- 0	.0	1,5	.0	.0	1.5	
10-11	.0	.0	.5	1,0	.0	.0	1.5	
12	.0	.0	.0	, 5	.0	.0	1.0	
13-16	.0	.0	.0	.0	.5	.0	,5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	. 0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	0.	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-80	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
							•	205
TOT PCT	19.5	34.1	39.0	3.9	1.0	.5	100.0	
		-						

PERIO	ı: (gv	ER-ALL)	194	9-1977	,				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HET	HT (F	1 VS	WAVE P	RIGO	SECON	120						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
46	3.5	6.0	7.8	4.3	1.8	.4	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	
6-7	.0	.7	5.7	9.9	5.3	1.8	2.5	.4	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	
8-9	.0	.4	3.5	4.3	2.1	3.2	1.6	1.1		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	7
10-11	.0	.0	1.4	1.1	2.8	2.5	1.8	1.8		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	8
10-11	.0	.0	0.	1.1	.0	.0	.0	.0		.4	.0	.0	.0	.0	.0	.0	.0	.0	.0		10
>13	.0	.0	.0	.0	.0	1.4	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0		8
INDET	4.0	2.5	1.8	1.8	.0					.0	.0	.0	.0	.0	.0	.0		.0	.0	37	2
TOTAL	27	22	57	63	34	27	.0		14	.,	.0	0	0	.,		ő	0	0	0	282	5
PCT	9.6	9.6	20.2	22.3	12.1	9.6		3.2	5.0	.7	.0	.0	.0	.0	.0	•0	.0	.0	.0	100,0	

AREA 0028 VALPARAISO 73.0W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
N	13.4	4.5	2.0	.0	.0	.0	.0	18.9	5.8	.0	1.0	.0	1.0	.0	73.3
NE	8.5	1.7	3.4	.0	.0	.0	.0	13.6	. 8	:0	3.4	.0	3.4	.0	78.8
E	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	95.2
SE	.0	.0	6.3	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0		93.7
S	.7	.0	1.6	.0	.0	.0	.0	2.3	.7	.0	2.8	.0	1.9		92.3
SW	.6	7.1	.0	.0	.0	.0	.0	7.7	.6	.0	4.7	.0	2.4		84.6
W	.0	.0	.0	.0	.0	.0	.0	.0	21.7	.0	.0	.0	.0	.0	78.3
NW	13.5	8.3	8.3	.0	.0	.0	.0	26.0	5.2	.0	4.2	.0	.0	.0	64.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0		.0	.0	.0	.0	4.3	4.3	.0	.0	.0	.0		91.3
TOT PCT	5.2	2.6	2.6	.0	.0	.0	.0	10.0	3.4	.0	2.1	.0	1.3	.0	83.2

TABLE 2

DEDCENE	FRENIENCY	WEATHER	OCCURRENCE	-	HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	POS WO POST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	6.5 3.6 5.4 5.4	3.2 1.8 1.1 4.3	1.1 .9 4.3 5.4	.0	.0	.0	.0	10.8 6.3 9.8 14.0	4.3 3.6 4.3 1.1	.0	1:1	.0	1.1	.0	82.8 88.4 80.4 80.6
TOT PCT	5.1	2.6	2.8	.0	.0	•0	.0	10.0	3,3	.0	2.1	•0	1.3	.0	83,3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3	4-10	D SPE	22-33	TS) 34-47	44+	TOTAL	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	16	21
N NE	2.1	8.0	7.5	4.0	1.6	.2		23.4	15.2	23.2	25.0	21.2	20.9	24.2	18.8	25.5	24.0
E	.7	1.4		.1	.0	.0		2.7	7.6	2.0	.0	2.9	2.7	2.9	12.5	3.4	1.6
SE	1.3	3.6	2.4	1.1	.1	.0		8.5	11.1	6.7	14.3	9.1	8.8	12.1	9.4	8.6	5.1
S	2.2	8.5	8.8	1.9	.2	.0		21.6	11.6	24.2	14.3	23.5	23.7	18.1	17.2	19.2	23.1
SW	1.6	4.6	2.9	.3	.1			9.6	9.5	10.7	28.6	10.7	8.7	8.4	10.9	8.8	10.3
W	1.0	2.4	2.1	.4	. 1	.0		6.0	10.9	6.3	10.7	4.9	5,3	6.0	6.3	6.7	6.6
NW	1.7	6.5	5.1	1.8	. 8	.1		16.0	13.0	15.3	3,6	14.0	15.4	14.7	.0	16.7	21.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1					-		5.1	.0	5,9	.0	7.2	6.8	3,8	6.3	4.1	3.0
TOT OBS	535	1208	964	314	97	10	3128		11.6	473	7	517	442	451	16	859	363
TOT PCT	17.1	38.6	30.8	10.0	3,1	. 3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

7	84	LB	2

WND DIR	0-6	WIND 7-16	SPEED 17-27		41+	TOTAL	PCT	MEAN SPD	00	HDUI 06 09	12 15	18 21
N NE	5.8	8.3	5,6	3.0	:7		23.4	15.2	23.2	21.1	24.0	25.0
	1.5	.9	, 3		.0		2.7	7.6	2.0		3.3	2.8
SE	3.1	3.1	2.0	.3	.0		8,5	11.1	6.8	9.0	12.0	7.5
5	5.7	10.6	4.9	.4	.0		21.6	11.6	24.1	23.6	18.1	20.4
SW	4.0	4.0	1,5	.1			9.6	9.5	10.9	9.8	8.5	9.2
SW	2.0	2.7	1.0	.2			6.0	10.9	6.4	5.1	6.0	6.6
NH	4.5	7.2	2,6	1.4	.2		16.0	13.0	15.1	14.7	14.2	18.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	5.8	7.0	3.9	3.8
TOT OBS	1093	1242	571	189	33	3128		11.6	480	959	467	1222
TOT PCT	34.9	39.7	18.3	6.0	1.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1870-1977

AREA 0028 VALPARAISO 34.45 73.0W

PERCENTAGE	FREQUENCY	OF	WIND	SPEED	BY	HOUR	(GMT)

HOUR	CALM	1-3	4-10	11-51 MIND		KNOTS) 34-47	48+	HEAN	PCT	TOTAL
60300	5.8	11.0	38.8	31.5	9,6	2.5	. 8	11.6	100.0	480
90300	7.0	13.1	39.7	28.8	7,8	3.2	.3	10.8	100.0	959
12615	3.9	13.1	42.0	28.7	9.9	2.6	.0	11.1	100.0	467
18221	3.8	11.1	36.4	33.0	12.0	3.4	.2	12.3	100.0	1222
TUT	159	376	1208	964	314	97	10	11.6		3128
PCT	5.1	12.0	38,6	30.8	10.0	3.1	.3		100.0	

TABLE						TABLE O												
PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTMS) BY WIND DIRECTION MEAN							PERCENTAGE FREQUENCY OF CEILING MEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											
WND DIR	0-2	3-4	5-7	8 6	TOTAL	COVER	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	1.8	3.8	4.8	18.6		6,6	.0	.0	3,6	7.6	7.2	1.0	1.4	.4	.0	.0	7.8	
NE	.9	.7	1.0	4.7		6.4		.0	.6	.7	2.0	1.0	.0	.0	.0	.0	2.3	
E	2.1	.4	.8	.0		2,6	.0	.0	.0	.4	.0	.0	.0	.0	.0	. 4	2.5	
SE	2.5	.7	1.3	. 9		3,6	.1	.0	.0	. 8	.4	.0	.0	.0	.0	.1	4.0	
S	15.5	4.2	4.3	4.5		3.1	.7	.0	.4	1.4	2.3	1.7	.0	.4	.0	.3	21.3	
SW	4.5	.5	4.0			3.6	.0	.0	.0	.5	1.1	.2	.8	.0	.0	.0	7.9	
W	1.1	.4	1.4	1.3		5,2	.0	.0	.0	.4	1.7	.0	.0	.0	.0	.0	2.2	
NW	1.0	. 9	1.0			6.4	.4	.4	.0	. 9	3.1	.0	.1	.0	.0	.0	3.0	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	. 8	.0	2.5		5.3	.0	.0	.0	1.1		.0	.0	.0	.0	.4	1.9	
TOT OBS	80	32	49	102	263	5:3		• •	12	36	49	10		.,	•		139	263
TOT PCT	30.4	12.2	18.6	38.8	100.0		1.9	.4	4.6	13.7	18.6	3.6	2.3		.0	1.1	52.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

				VSBY (NH	1)			
CEILING	· OR	- OR	- OR	· OR	- OR	- OR	· DR	- OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
- DR >6500	:7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
■ NR >5000	.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
■ OR >3500	1.9	3.7	3.7	3.7	4.1	4.1	4.1	4.1
■ OR >2000	4.8	7.4	7.4	7.4	7.8	7.8	7.8	7.8
- OR >1000	16.7	25.3	26.4	26.4	26.8	26.8	26.8	26.8
. OR >600	24.9	37.2	40.1	40.1	40.5	40.5	40.5	40.5
. OR >900	25.7	39.8	44.2	44.6	45.0	45.0	45.0	45.0
- OR >150	25.7	39.8	44.2	45.0	45.4	45.4	45.4	45.4
- DK > 0	26.0	40.1	45.0	46.1	46.5	46.5	46.8	47.2
TOTAL	70	108	121	124	125	125	126	127

TOTAL NUMBER OF OBS: 269 PCT FREQ NH <5/81 52.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD DBS 17.0 12.4 9.5 7.8 7.4 4.6 4.6 6.0 29.7 1.1 283

11	u	E	

PERIOD:	(PRIMARY)	1908-1977
		1070 1070

AREA 0028 VALPARAISD 73.0W

	1908-1977 1870-1977						TA	BLE 8				ARE	4 0028
		P	ERCENT	FREQ PREC	OF WIN	D DIRE	CTION TH VAR	VS DCC	URRENC ALUES	E OR N	IBILI	CURRENC TY	E OF
VSBY		N	NE	E	SE	s	SW		NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	. 3	.0	.0		
<1/2	NO PCP	.0	. 3	.0	.0	.3	.0	.0	.0	.0	.0		
	TOT \$.0	. 3	.0	.0	. 3	.0	.0	. 3	.0	.0	. 8	
	PCP	. 3	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/241		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	PCP	.3	.0	.0	.1	.2	.0	.0	.3	.0	.0	.8	
1<2	NO PCP	.0	.0	.0	.0	.3	.3	, 3	.0	.0	.0	. 8	
	TOT \$. 3	.0	.0	.1	.5	.3	.3	. 3	.0	.0	1.6	
	PCP	2.2	.1	.0	.0	.2	.1	.0	.0	.0	.0	2.6	
2<5	NO PCP	1.0	.1	.0	.0	. 2	. 1	, 3	. 3	.0	.3	2.1	
	TOT %	3,2	. 2	.0	.0	.4	. 1	, 3	.3	.0	. 3	4.7	
	PCP	2.0	.8	.2	.3	.0	.8	.0	1.1	.0	.0	5.2	
5<10	NO PCP	9.3	1.7	. 5	1.0	3.0	.4	, 3	. 1	.0	1.6	17.8	
	TOT \$	11.3	2.5	.7	1.4	3.0	1.2	. 3	1.2	.0	1.6	23.1	
	PCP	.1	.1	.0	.0	. 3	.0	.0	.0	.0	.3	.8	
10+	NO PCP	10.9	4.7	3,3	4.8	23.6	9.5	3,7	4.3	.0	3.9	68.8	
	TOT \$	11.0	4.8	3.3	4.8	23.8	9.5	3.7	4.3	.0	4.2	69.6	
	TOT OBS												381
	TOT PCT	26.0	7.7	4.1	6.2	28.0	11.1	4,5	6.3	.0	6.0	100.0	

TABLE 9

	PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY												
VSBY (NM)	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	рСт	TOTAL
	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.8	1.0	
<1/2	4-10	.1	.4	.0	.0	. 8	.1	.0	.2	.0		1.6	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.4	.0	.0	1.1	.1	.0	.2	.0	.8	2.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.3	.0	.0	.0		.3	
	425	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.3	•0	•0	.0	.0	.3	.0	.0	.0	.0	.6	
	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	.4	
1<2	4-10	.3	.1	.0	.0	.1	.0	.0	.0	.0		.6	
	11-21	.6	.0	.0		.1	.0	.2	.2	.0		1.1	
	22+	.3	.0	.0	.0	.1	.0	.0	.0	.0		.4	
	TOT %	1.1	•1	.0	•	• •	.1	.2	.2	.0	.3	2.5	
	0-3	.0	.0	.0	.0	.1	.0	.0	-1	.0	.4	.7	
2<5	4-10	.6	.1	.0	.1	.5	.2	.0	.2	.0		1.8	
	11-21	.7		.0	.0	.1		.1	.4	.0		1.4	
	22+	1.8	.1	.0	.0	.0	.0	.1	.5	.0		2.5	
	TOT %	3.2	•2	•0	•1	. 8	.3	.2	1.3	.0	.4	6.5	
	0-3	.1	.5	.0	.1	.1	.0	.0	.1	.0	1.6	2.5	
5<10		1.9	1.1	.5	.6	1.6	.5	.5	.2	.0		6.9	
	11-21	3.4	.5	• 1	.0	. 8	.6	.1	.4	.0		5.8	
	22+	4.2	. 7	•0	.0	.0	.3	.2	8	.0		6.2	
	TOT \$	9.6	2.7	• 7	.7	2.5	1.3	. 8	1.7	.0	1.6	21.5	
	0-3	.6	.7	•7	1.3	1.7	1.2		.1	.0	5.0	11.8	
10+	4-10	3.7	2.3	1.5	2.5	7.6	4.8	1.8	2.9	.0		26.9	
	11-21	5.2	• 7	.2	1.2	11.1	2.9	1.5	1.3	.0		24.1	
	22+	.4	•2	.0	.6	1.8	.2	.1	.1	.0		3.4	
	TOT \$	9.9	3.8	2.4	5.6	22.2	9.1	3.7	4.4	.0	5.0	66.1	
	TOT ORS		-										706
	TOT PET	24.2	7.3	3.1	6.4	26.9	11.3	5.0	7.8	.0	8.1	100.0	

JUNE

PER IOD:	(PRIMARY)	1908-1977
	(DVER-ALL)	

TABLE 10

AREA 0028 VALPARAISO 34.45 73.0W

PERCENT	PREQUENCY	OF	CFILI	NG H	FIGHTS	(FEET.NH	34/81	AND
CHOCK	. KEROENE!				16 10013	/LEELYING	74/01	ANU

HOUR (GMT)	149	150 299	300	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
£0300	.0	.0	6.2	13.8	20.0	7.7	1.5	.0	.0	1.5	50.8	49,2	65
06609	2.4	.0	2.4	15.3	15.3	2.4	1.2	1.2	.0	1.2	41.2	58,8	85
12615	1.5	.0	4.5	16.4	17.9	3.0	3.0	.0	.0	.0	46.3	53.7	67
18621	3.2	1.6	4.8	6.3	20.6	1.6	3.2	1.6	.0	1.6	44.4	55,6	63
TOT PCT	1.8	.1	12	37 13.2	18.2	3.6	2.1	.7	.0	1.1	127	153 54.6	280

TABLE 11

		PERCENT	FREQUEN	ICY VSBY	((MN)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GHT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
60300	.7	.7	2.7	6.2	23,3	66.4	146	00603	.0	6.3	22.2	30.2	47.6	63
06609	2.0	.0	2.0	7.7	17.5	70.7	246	90360	2,4	4.9	20.7	22.0	57.3	82
12615	2.8	1.4	3,5	7.6	22.9	61.8	144	12615	1,6	7.8	28.1	21.9	50.0	64
18621	5.0	.6	2.2	3.9	23.9	64.4	180	18621	3,3	11.7	20.0	28.3	51.7	60
TOT PCT	19 2.7	.6	2.5	6.4	153	476 66.5	716	TOT	1,9	7.4	22.7	25,3	140 52.0	269

TABLE 1

						-				
	PERC	ENT FR	EQUENC	OF R	ELATIV	E HUMI	0174 B	Y TEMP		PCT
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ
70/74	.0	.0	.0	.0	.0	.3	.0	.0	1	.3
65/69	.0	.0	.0	.0	.0	.3	. 3	.0	2	.6
60/64	.0	.0	.0	.0	.3	3.4	4.3	2,5	34	10.5
55/59	.0	.0	.0	.9		8.6	21.6		173	53.4
50/54	.0	.0	.0	.6	3.4	6.5	14.8	8,3	109	33.6
45/49	.0	.0	.0	. 3	.0	.0	. 6		. 5	1.5
TOTAL	0	0	0		23	62	135	98	324	100.0
PCT	.0	0	.0	1.9	7.1	19.1	41.7	30.2		

TARIF 1

	PERC	ENT FR	EQUENC	Y OF	WIND DI	RECTIO	N BY T	EMP	
N	NE	E	SE	s	SW	W	NW	VAR	CALM
.0	.0	.3	.0	.0	.0	.0	.0	.0	•0
.0	.0	.3	.0	.3	.0	.0	.0	.0	.0
2.0	.6	1.0	1.5	1.8	.5	.5	1.7	.0	.9
18.8	4.4	1.7	2.3	13.8	4.1	2.8	3.9	.0	1.5
5.4	3.9	.2	1.7	10.3	6.5	1.8	1.0	.0	2.8
.0	.6	.0	.3	.0	.3	.0	.0	.0	.3
26 2	0.4			24.2	11 2			•	

TABLE 15

	MEANS,	EXTREMES	AND	PERCEN	TILES	OF TEM	P IDE	G F) [Y HOUR
HOUR (GMT)	MAX	998	95%	50%	5%	1%	HIN	MEAN	TOTAL
00803	74	61	59	55	50	47	45	55.2	479
90360	70	60	59	55	49	46	40	54.3	963
12615	68	62	60	55	49	45	41	54.6	463
18621	76	64	62	56	51	49	41	56.5	1172

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	MIDITA	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60800	.0	.0	7.8	18.2	41.6	32.5	85	77
00809	.0	1.1	4.6	12.6	46.0	35.6	87	87
12615	.0	1.1	5.7	18.2	50.0	25.0	84	88
18621	.0	6.1	11.0	25.6	29.3	28.0	81	82
TOT	0	7	24	62	140	101	RA	224

JUNE

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1870-1977

TABLE 17

AREA 0028 VALPARAISO 34.45 73.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

42	AIK.	SEA	TEMPE	MIUNE	Ultri	ENEMER	(DER L)		
AIR-SEA TMP DIF	45	49 52	53 56	57 60	64	65	TOT	FOG	FOG
9/10	.0	.0	.0	.0	.3	.3	2	.0	.6
170	.0	.0	.0	.0	.0	.0	i	.0	. 3
5	.0	• 0	.3	.6	.0	.0	•	.0	1.0
	.0	.0	1.3	.6	1.0	.0	3	.0	2.9
3	.0	000000000000000000000000000000000000000	.3	2.9	.3	.0	11	.3	3.2
2	.0	.6	2.9	4.8	1.0	.0	29	.0	9.2
1	.0	.6	3.2	7.0	1.6	.0	39	.6	11.8
0	.0	1.3	9.2	5.7	1.0	.0	54	.3	16.9
-1	.0	1.3	9.2	4.8	.0	.0	46	.3	14.3
-2	.0	1.3	9.2	2.5	.3	.0	42	.0	9.2
-3	.0	1.0	7.3	1.0	.0	.0	29	.0	9.2
-4	.0	1.0	4.1	1.6	.0	.0	21	.3	6.4
-5	.6	2.2	1.0	.6	.0	.0	14	.3	4.1
-6	.0	1.0	.3	. 3	.0	.0	5	.0	1.6
-7/-8	.0	1.3	.6	.0	.0	.0	6 2	.0	1.9
-9/-10	.0	.0	.6	.0	17	.0	2	.0	.6
TOTAL	5		157		17			7	307
		. 34		103	- 4	1	314		97.8
PCT	.6	10.8	50.0	32,8	5.4	.3	100.0	2.2	91.6

PERIOD: (DVER-ALL) 1963-1977

TABLE 18

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	484	PCT
<1	,5	.6	.0	.0	.0	.0	1.1		.8	.6	.0	.0	.0	.0	1.4
1-2	.0	3.7	.5	.0	.0	.0	4,2		.0	. 8	.6	.0	000000000000000000000000000000000000000	.0	1.4 3.5 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
3-4	.0	1.3	3.5	.0	.0	.0	4,8		.0	1.9	1.6	.0	.0	.0	3,5
5-6	.0	.0	6.9	.6	.0	.0	7,5		.0	.0	.3	.0	.0	.0	.3
7	.0	.0	3.7	.5	.0	.0	1.9		.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.6	.6	.6	.0	1.9		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.3	1.3	.0	.0	2.6		.0	.0	.0	.0	.0	.0	.0
12 13-16	.0	.0	.0	.6	.6	.0	1.3		.0	.0	.0	.0	.0	.0	.0
13-16	.0	. 0	. 0	.0	2.1	.0	2.1		.0	.0	.0	.0	.5	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	000000		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.6	16.5	3.7	3,4	.0	29.6		.8	0	5.6	.2	.5	.0	7.4
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	-0
1-2	.0	1.9	.0	.0	.0	.0	1,9		.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	.0	. 6	.0	.0	.0	. 0		.6	.0	.0	.0	.0	.0	. 6
5-6	.0	.0	.6	.0	.0	.0	06000000		.0	.0	.5	.6	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	,2	.0	.0	.0	. 2
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	, 2	.0	.0	.0	. 2
10-11	,0	.0	.0	.0	.0	.0	.0		.0	.0	.6	.2	.0	.0	. 8
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.6	.0	.0	.0	.0	. 6		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0		.0	.0	.00		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.61.1
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6					2.2			1.9	1.4		.0	-0	4 8

PAGE 272

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT																		
TABLE 18 (CONT) 94.45 73. PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT		1046	0-411	1040 10							JUNE					0000	V4. 0.0	
HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT	PERIOU	TUVE	M-ALL!	1403-14	7,				TABLE	18	(CONT)			AKEA			3.0W
					PC	T FREQ	OF WIND	SPEED	(KTS)	ANI	DIREC	CTION V	ERSUS S	EA HEIG	HTS (FT)		
	HGT	1-3	4-10	11-21 5	22-32	34-47	484	PCT			1-3	4-10	11-21	22-33	34-47	484	prt	
	<1	.0	1.9	.0	.0	.0	.0	1.9			2.6	.0	.0	.0	.0	.0	2.6	

				•	. PAER C	L WIND	SPEED	INIST WHO DIKE	- I I GIN	*EK303 3	EM HETO	m12 (F1)			
HGT	1-3	4-10	11-21	5 22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.9	.0	.0	.0	.0	1.9	2.6	.0		.0	34-41	.0	2.6	
1-2	.6	5.1	1.3	.0	.0	.0	7.1	.6	1.4	.0	.0	:0	.0	2.1	
3-4	.0	2.7	2.4	.6	.0	.0	5.8	.0	3.0	.2	.0	:0	.0	3.2	
5-6	.0	1.3	5.6	.0	.0	.0	6.9	.0		1.6	.0	• • •	.0	2.2	
7	.0	.0	2,4	.0	.0	.0	2,4	.0	.6	6	.0	0	.0	1.3	
8-9	.0	:0	2.4	.0	.0	.0	2.4	.0	.0	.6	:0	• 0	.0		
10-11	.0	.0		.5	.0	.0	.5	.0	.0	.0	.0	• 0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	• 0	.0	.0	
13-16	.0	.0		.6	.0	.0	• •	.0	.0	.0	.0		.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	• 0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0	.0	• 0	.0	.0	
23-25		:0	.0	.0		.0	:0	.0	:0	.0		• •	.0		
26-32	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	• •	.0	.0	
33-40		:0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	
41-48	.0	:0		•0	.0	.0	:0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0		.0		.0	
61-70		:0	.0	.0			.0	.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
87+	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	.0	
TOT PCT	.0		0	.0	.0	.0		3.2	5.8	.0	.0	.0	.0	.0	
IUI PCI	.6	11.1	14.1	1.8	.0	.0	27.6	3,2	3.0	3.0	.0	.0	.0	12.0	
				¥							22-33				PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	.6	
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	1.8	. 8	.0	.0	.0	2.6	
3-4	.0	.6	.0	.0	.0	.0	. 6	.0	.0	.0	.0	.0000	.0	.0	
5-6	.0	.0	.6	.6	.0	.0	1.3	.0	.6	1.8	.0	.0	.0	2.4	
7	.0	.0	. 5	.0	.0	.0	.5	.0	.0	1.0	.0	.0	.0	1.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	. 2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	2.6	1.1	.6	.0	.0	5.0	.6	2.4	4.2	.0	.0	.0	7.2	96.8
memo nero					10,00					77.53		-	-	1000	

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	9.2	3.1	.0	.0	.0	.0	12.3	003
1-2	1.8	19.0	3.1	.0	.0	.0	23.9	
3-4	.6	9.8	7.4	.6	.0	.0	18.4	
5-6	.6	2,5	17.2	1.8	.0	.0	22.1	
7	.0	. 6	8.0	.6	.0	.0	9.2	
8-9	.0	.0	4.3	.6	.6	.0	5.5	
10-11	.0	.0	1.8	1.8		.0	3.7	
12	.0	.0	.0	.6	.6	.0	1.2	
13-16	.0	.0	.0	. 6	2.5	.0	3.1	
17-19	.0	. 6	.0	.0	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
	, -				*		•	163
TOT PCT	12.3	35.6	41.7	6.7	3.7	.0	100.0	

TABLE 1

AREA 0028 VALPARAISO 34.45 73.1W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WNO DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRIN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N NE	14.0	.6	3.7	.0	.0	.0	.0	18.2	2.8	2.3	5.7	.0	1.7	.0	69.2
	17.3	.0	1.5		.0	.0	.0	18.8	4.5	.0	5.3			.0	69.9
E	3.3	.0	.0	.0	.0		.0	3.3	0	.0	25.0	•0	.0	.0	71.7
SE	3.8	.0	.0	.0	.0	.0	.0	3.8	3.8	.0	16.0	.0	.9	.0	75.5
S	.0	.7	.0	.0	.0	.0	.0	.7	.7	.0	2.8	1.3	.6	.0	93.9
SW	2.4	.0	2.4	.0	.0	.0	.0	4.8	2.4	.0	4.2	.6	.0	.0	88.0
W	3.8	.0	.0	.0	.0	.0	.0	3.8	.0	3.8	3.8	.0	3.8	.0	84.9
NW	9.6	5.6	4.8	.0	.0	.0	.0	20.2	.0	.0	2.9	.0	.0	.0	76.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	.0	1.5	.0	.0	.0	.0	3.1	.0	.0	33.8	.0	.0	.0	63.1
TOT PCT	5.5	.7	1.5	.0	.0	.0	.0	7.7	1.5	.7	9.6	.4	.9	.0	79.2

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00£03 06£09 12£15 18£21	3.8 4.8 7.6 5.1	.0 1.6 .8	2.9 1.6 1.7	.0	.0	.0	.0	6.7 8.1 10.1 5.1	1.0 2.4 .8 1.7	.0 .8 1.7	10.6 8.9 8.4 10.2	1.7 0	1.0 .0 1.7	.0	80.8 79.8 75.6 82.2
TOT PCT TOT OBS:	5.4	.6	1.5	•0	.0	.0	.0	7.5	1.5	.6	9.5	.4	.9	.0	79.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	NO SPE	ED (KN	ots)								HOUR	(GMT)			
WNO DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N NE	1.9	7.1	6.5	3.6	.8	•1		20.0	14.5	19.7	8.3	19.4	18.1	18.5	15.0	23.0	19.3
E	. 8	1.9	.3			.0		3.0	6.3	2.6	.0	3.4	3,5	3.7	15.0	2.3	2.5
SE	1.0	4.1	2.4	. 8	• 1	.0		8.4	10.9	6.5	.0	8.8	10.8	9.7	.0	8.9	5.3
S	2.3	11.4	10.3	2.1	.4	.0		26.4	11.6	27.7	33.3	28.5	27.1	27.9	27.5	21.9	28.2
SW	1.2	4.4	2.7	.9	• 1	.0		9.3	10.7	12.1	.0	9.7	7,5	7.1	17.5	7.9	12.6
W	1.3	2.9	1.6	1.2	.3	.0		7.2	12.3	6.6	.0	7.4	6,3	7.5	.0	8.4	6.1
NW	1.4	4.9	4.9	2.5	.5	. 1		14.2	13.9	12.4	.0	11.2	15,0	13.0	.0	16.3	18.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1							6.1	.0	7.5	41.7	6.7	5,6	6.0	20.0	5.3	4.3
TOT OBS	593	1367	1047	404	81	7	3499		11.5	546	12	593	484	535	20	892	417
TOT PCT	16.9	39.1	29.9	11.5	2.3	. 2		100.0				100.0	100.0	100.0	100.0	100.0	100.0

....

			SPEED		414	TOTAL		MEAN	00	HOU		
WNO DIR	0-6	7-16	17-27	28-40	41+	DBS	PCT	SPD	03	06	12	18
						000		4.0			13	
N	4.7	7.9	4.8	2.3	.3		20.0	14.5	19.5	18.8	18.4	21.8
NE	2.3	1.9	. 9	.3	.1		5.5	10.7	5.1	5.4	6.6	5.2
	2.0	.9	.1		:0		3.0	6.3	2.5	3.4	4.1	2.3
SE	3.0	3.5	1,5	.3	.0		8.4	10.9	6.4	9.7	9.3	7.8
5	7.3	12.8	5,7	.6	.1		26.4	11.6	27.8	27.9	27.9	23.9
SW	3.2	4.2	1.5	.4			9.3	10.7	11.8	8.7	7.5	9.4
W	2.8	2.3	1,2	. 8			7.2	12.3	6.5	6.9	7.2	7.7
NW	3.8	5.4	3,5	1.3	.2		14.2	13.9	12.1	12.9	12.5	16.9
YAR	.0	.0	.0	.0	.0		.0	.0	• 0	.0	.0	.0
CALM	6.1						6.1	.0	8.2	6.2	6.5	5.0
TOT GBS	1232	1358	674	213	22	3499		11.5	558	1077	555	1309
THE DET	28 2	28 0	10 2	4 1			100 0		100.0	100 0	100 0	100 0

PERIOD: (PRIMARY) 1905-1976 (DVER-ALL) 1870-1976

TABLE 4

AREA 0028 VALPARAISO 34.45 73.1W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21 HIND		34-47	48+	MEAN	PCT	TOTAL
60300	8.2	10.6	40.0	28.7	10.8	1.6	.2	10.8	100.0	558
06409	6.2	11.0	41.8	29.0	10.4	1.7	.0	10.9	100.0	1077
12615	6.5	12.3	38.7	29.7	10.1	2.7	.0	11.0	100.0	555
18821	5.0	10.2	36.6	31.3	13.4	3.0	.5	12.5	100.0	1309
TuT	214	379	1367	1047	404	81	7	11.5		3499
PCT	6.1	10.8	39.1	29.9	11.5	2.3	. 2		100.0	

TABLE

TABLE A

P	CT FRE			DIREC		EIGHTHS			PERCEN	TAGE F	REQUEN	CY DF	CEILIN	G HEIG	HTS (RECTIO	94/8) IN	
WNO DIR	0=2	3-4	5-7	B & nBSCD	TOTAL	CLOUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL
N	2.3	.6	3.7	10.0		6.4	.5	.0	1.0	2.4	3.7	3.0	.6	.0	.1	. 3	5.0	
NE	. 8	.6	1.9	4.7		6.5	. 3	.3	1.0	. 5	. 8	1.7	. 4	.0	.1	.0	2.8	
E	.5	.3	1.3	1.9		6,2	.1	.0	. 3	.0	.7	.9	. 1	.0	.0	.0	1.8	
SE	2.9	1.1	1.1	2.1		4,1	. 4	.0	.4	. 3	1.2	.0	.0	.0	.0	. 1	4.8	
S	16.4	3.8	7.6	4.2		3,2	. 6	.0	.1	.7	5.1	.6	.0	.0	.0	. 2	24.8	
SW	4.1	1.5	1.9	1.5		3,2	.0	.0	. 3	. 3	. 8	.6	.0	. 1	.1	.0	6.6	
W	1.1	.3	2.8	1.7		5.7	. 3	.0	. 5	.0	1.1	. 5	.0	. 5	.1	.0	2.9	
NW	. 8	. 8	1.4	2.5		5.7	.1	. 3	. 1	. 1	1.9	1.0	.0	.0	.0	.0	2.1	
VAR	.0	.0	•0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5	. 8	1.1	7.5		6.0	4.2	.0	. 8	.0	1.1	1.7	.0	.0	.0	. 3	3,9	
TOT DBS	113	35	82	130	360	4.8	23	2	16	16	59	36	4	2	2	3	197	360
TOT PCT	31.4	9.7	22.8	36.1	100.0		6.4	.6	4.4	4.4	16.4	10.0	1.1	.6	.6	. 8	54.7	100.0

TABLE 7

	0	F CEILIN	G HEIGHT	(NH >4/	B) AND V	SBY (NM)	
				VSBY (NM)			
CEILING	- OR	• DR	· DR	• OR	• OR	• DR	• UR	= OR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ DR >6500	.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
■ RR >5000	.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2
■ NK >3500	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
■ DR >2000	7.4	12.9	13.2	13.2	13.2	13.2	13.2	13.2
- DR >1000	18.1	28.8	29.3	29.6	29.6	29.6	29.6	29.6
■ NR >600	20.0	32.6	33.7	34.0	34.0	34.0	34.0	34.0
- DR >300	21.4	34.2	37.8	38.1	38.1	38.1	38.1	38.4
. DR >150	21.4	34.8	38.4	38.6	38.6	38.6	38.6	38.9
- OR > 0	21.4	35.1	39.7	40.3	43.3	43.3	43,8	45.2
TOTAL	78	128	145	147	158	158	160	165

TOTAL NUMBER OF OBSI 365

PCT FREQ NH <5/81 54.8

TABLE 7A

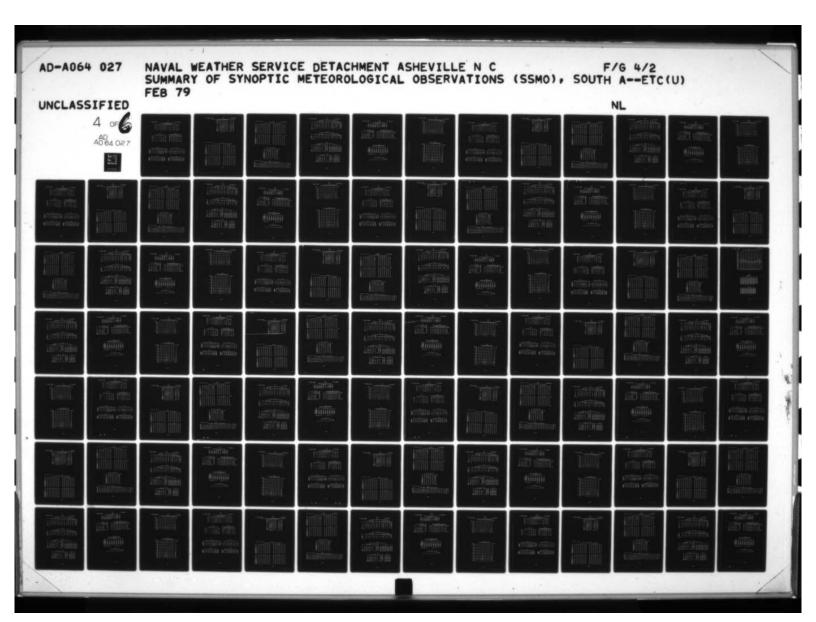
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 0BSC0 OBS 21.6 13.2 8,7 7,1 3,7 5.8 5,3 4.5 24.5 5,8 380

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								3.	061							
PERIOD:	(PRIMARY) 1 (OVER-ALL) 1	905-1976 870-1976						TAB	LE 8				AREA	0028	34.45	73.1W
			PE	RCENT	FREO DF	OMIW ITATI	DIRECT	TION V	ING VA	RRENCE LUES D	FVI	NON-DCCUP SIBILITY	RENCE	DF		
	VSBY		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL		
	<1/2	PCP NO PCP TOT %	.0	.0	.2	.1 .1	.0 .1 .1	.1	.0	.1	.0	1.1	1.8 2.0			
	1/2<1	PCP ND PCP TOT %	.0	.0	.0 .1	.0	.0	.0	.0	.1 .0	.0	1.5 1.5	2.4			

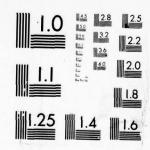
VSBY	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(NM)	KTS												OBS
	0-3	. 3	.0	.0	.0	.0	.0	.0	.0	.0	. 8		
<1/2	4-10	.1	.0	• 1		.1	.1	.1	. 3	.0		. 8	
	11-21	.0	.0	• 0	.0	• 1	.1	.0	.0	.0		.1	
	22+	.0	• 1	• 0	.0	.0	.0	.0	.0	.0	_	• 1	
	TOT %	.4	• 1	• 1		• 1	.1	.1	.3	.0	.8	2.2	
	0-3	.0	• 0	.1	• 1	.1	.0	.0	.0	.0	1.0		
1/2<1	4-10	.0	• C	.0	• 1	.0	.0	.1	.0	.0		.3	
	11-21	.1	.0	.0	.0	.0	.0	.0		.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	-1	• 0	.1	• 2	• 1	.0	.1	.2	.0	1.0	1.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1		
1<2	4-10	.0	.0	.0	.1	.0	.1	.0	.0	.0		.3	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.1	.0	•0	.0	.0	.0	.0	.1	.0		.3	
	TOT %	.3	•0	• 0	.1	.0	.1	.0	.1	.0	.1	.8	
	0-3	.3	.0	.0	.0	.1	.2	.0	.0	.0	.8		
2<5	4-10	.5	.2	• 1	.3	.1	. 2	. 1	.0	.0		1.5	
	11-21	.3	• 1	.0	.0	.0	.1	.0	.0	.0		.6	
	22+	.6	• 2	.0	.0	.0	.0	.0	.1	.0		1.0	
	TOT %	1.7	.5	• 1	.3	•1	.6	.1	.1	.0	. 8	4.5	
	0-3	.3	.4	.2	.3	.6	.1	.0	.1	.0	1.9		
5<10	4-10	1.7	. 9	.4	.4	1.1	.5	.7	.3	.0		6.1	
	11-21	2.0	.4	. 1	.2	1.2	.2	.0	1.3	.0		5.3	
	22+	2.4	.1	• 1	.0	.3	.0	.1	.6	.0		3.6	
	TOT %	6.4	1.9	.8	.9	3.2	.7	. 8	2.3	.0	1.9	19.1	
	0-3	.4	.0	.3	.4	1.3	.4	.7	.5	.0	6.1		
10+	4-10	3.8	2.0	1.8	3.0	11.9	3.6	2.3	2.1	.0		30.5	
	11-21	3.7	1.0	.4	1.0	14.0	4.2	1.1	1.6	.0		27.2	
	22+	7	.1	.0	.0	2.2	.6	1	.2	.0		3.9	
	TOT %	8.6	3.2	2.5	4.4	29.4	8.8	4.2	4.4	.0	6.1	71.6	
	OT OBS												718
1	TOT PET	17.5	5.7	3.6	6.1	33.1	10.3	5.4	7.5	.0	10.9	100.0	



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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-7

JULY

PERIOD:	(PRIMARY)	1905-1976
	(CVFR-ALL)	1870-1974

TABLE 10

AREA 0028 VALPARAISO 34.45 73.1W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) A DCCURRENCE OF NH <5/8 BY HOUR	PERCENT	FREQUENCY	DF CE	IL	ING F NH	HEIGH'	BY	(FEET, NH HOUR	>4/8)	AN	D
--	---------	-----------	-------	----	-------------	--------	----	-------------------	-------	----	---

HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	7.1	1.2	2.4	4.8	11.9	9.5	.0	1.2	.0	.0	38.1	61.9	84
90300	3.8	.0	2.9	5.8	17.3	8.7	.0	.0	.0	2,9	41.3	58,7	104
12615	7.6	1.1	5.4	4.3	23.9	9.8	2.2	.0	2.2	.0	56.5	43.5	92
18621	6.6	.0	6.6	2.2	11.0	11.0	2.2	2.2	.0	.0	41.8	58,2	91
TOT	23	2	16	16	16.2	36	1.1	3	2	3	165	206 55.5	371

TABLE 11

TABLE 12

								CUMULAT	IVE PCT	FREQ	OF RAN	GES OF	VSBY (NM)	AND/DR
		PERCENT	FREQUENC	Y VSBY	(MM)	BY HOUR			CEILIN	G HGT	(FEET,	NH >4/8	1.BY HOUR	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00603	1.3	2.6	.7	3.9	16,3	75.2	153	00603	7,3	11.0	15.9	23,2	61.0	82
06609	2.2	.4	.4	5.2	17.7	74.1	232	90300	3,9	6.8	13.6	28,2	58.3	103
12615	2.5	2.5	1.3	3.2	22.3	68.2	157	12615	7.8	14.4	20.0	37.8	42.2	90
18621	2.7	2.2	1.1	4.8	21.5	57.7	186	18621	7.8	13.3	16.7	25.6	57.8	90
TUT PCT	16	13	.6	32	141	520 71.4	728	TOT	6.6	11.2	16.4	105	200 54.8	365

TABLE 1

					MOLE I	•				
	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY B	Y TEMP	TOTAL	PCT
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ
65/69	.0	.0	.0	.5	.0	1.5	.0	.0	2	.5
60/64	.0	.0	.0	.5	.5	1.5	.5	1:0	16	4.0
55/59	.0	.0	.0	.5	5.0	12.2	11.4	8.7	152	37.7
50/54	.0	.0	.5	.7	5.0	11.9	19.1	14.9	210	52.1
45/49	.0	.0	.0	. 2	.0	3.0	1.5	.7	22	5.5
40/44	.0		.0	.0	.0	.0		.0	1	.2
TOTAL	0	0	2	10	42	115	132	102	403	100.0

TABLE 14

	PERCE	NT FRE	EQUENC	Y DF W	IND DI	RECTIO	N BY T	EMP	
N	NE	E	SE	s	SW	W	NW	VAR	CALM
:0	.0	.0	.1	1:7	.0	.2	.0	.0	.0
10.9	3.8	1.7	1.9	10.4	1.7	1.4	3.4	.0	3.7
.1	. 1	.0	.6	1.6	.2	.2	.0	.0	2.2
20.1	6.6	2.2	6.5	30.3	9.9	5.9	5.8	.0	12.7

TARLE 15

	ME MINS	EVIVE	ES AND	PERCE	11162	0- 15			HUUK
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	65	61	59	54	49	46	43	53.9	553
06809	62	60	58	54	48	45	41	53.3	1073
12615	67	61	58	54	47	45	42	53.2	550
18821	71	64	61	55	50	48	43	55.6	1252
TOT	71	62	60	54	49	46	41	54.2	3428

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	MIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	.0	1.0	14.4	23.7	33.0	27.8	82	97
90300	.0	1.8	10.0	24.5	40.0	23.6	82	110
12612	.0	1.9	5.7	33.0	29.2	30.2	83	106
18621	.0	7.0	12.0	32.0	31.0	18.0	80	100
TOT	0	12	43	117	138	103	82	413

JULY

PERIOD: (PRIMARY) 1905-1976 (OVER-ALL) 1870-1976

TABLE 17

AREA 0028 VALPARAISU 34.45 73.1W

CT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATIO														
	CT	FREQ	OF	AIR	TEMPERATURE	IDEG	F)	AND	THE	OCCURRENCE	OF	FOG	(WITHOUT	PRECIPITATION

VS	AIR-	SEA	TEMPE	RATURE	DIFF	ERENCE	IDEG	F)			P
AIR-SEA TMP DIF	41 44	45	49 52	53 56	57 60	61	68	TOT	FÖG	FDG	
14/16	.0	.0	.0	.0	.0	.3	.3	1 2 2	.0	3 5 5 3 1.4 2.4 2.7 6.2 10.3 13.2 12.7	
11/13	.0	.0	.0	.0	.0		.3	2	.0	• 2	
9/10	.0	.0	.0	.0	.0	, 3	.3	2	.0	• • •	
6	.0	.0	.0	.0	.0	.3	.0	1	.0	.3	
5	.0	.0	.0	.0	. 8	. 5	.0	5	.0	1.4	
4	.0	.0	.0	1.1	1.4	.5	.0	10	.3	2.4	
3	.0	.0	.0	.8	1.9	.0	.0	10	.0	2.7	
2	.0	.0	.0	4.6	1.4 1.9 1.4	. 3	.0	23	.0	6.2	
1	.0	.0	.5	5.9	3.8	.0	.0	38	.0	10.3	
0	.0	.0	1.6	10.3	2.2	.0	.0	52	. 8	13.2	
-1	.0	.0		9.5	1.1	.5	.3	50	. 8	12.7	
-2	.0	.0		8.6	. 8	.0	.0	46	. 5	11.9	
0 -1 -2 -3	.0	.3	3.2	6.2	.0	.0	.0	36	. 8	8.9	
-5	.0	.8	4.3	5.1	.0	.0	.0	39	.8 .5 .8 .3 .5 .5 .5	8.9 10.3	
-5	.0	.3		1.9	.0	, 3	.0	21	. 3	5.4	
-6	.0	. 8		. 8	.0	.0	.0	17	. 5	4.1 2.7 .3 .5	
-7/-8	.0	.5	1.9	.8	.0	.0	.0	12	.5	2.7	
-9/-10	.0	. 3		.5	.0	.0	.0	3	. 5	.3	
-11/-13	.0	.3		.3	.0	.0	.0	2	.0	. 5	
TOTAL	1	•-	84	•	51	••		•	20	350	
		12		208		10	-	370	20	330	
PCT	.3	3.2	22.7	56.2	13.8	2.7	1.1	100.0	5.4	94.6	

PERIOD: (OVER-ALL) 1963-1976

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1		.0	.3	.0	.0	.0	.0	.3
1-2	.0	5.2	.5	.0	.0	.0	5.7		.0	2.0	.0	.0	.0	.0	2.0
3-4	.6	1.7	1.5	.0	.0	.0	3,9		.0	.6	.9	.0	.0	.0	1.5
5-6	.0	.0	2.3	.0	.0	.0	2,3		.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.6	.0	.0	.0	.6		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.2	.6	.0	.0	1.9		.0	.0	.0	.0	.6	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000600000000000000	.0	.0
13-16	.0	.0	.0	1.2	.0	.0	1.2		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	,0	.0	, o		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	2.9	.0	.0	.0	.0	.0
TOT PCT	.6	8.0	6.2	1.9	.0	.0	16.7		.0	2.9	2.3	.0	.6	.0	5.9
				E								SE 22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21		34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5		.6	.6	.0	.0	.0	.0	1.2
1-2	.0	.0	. 5	.0	.0	.0	.5		.0	.6	.2	.0	.0	.0	. 8
3-4	.0	.5	.0	.0	.0	.0	.5		.0	.6	.9	.0	.0	.0	1.5
5-6	.0	1 .0	.0	.0	.0	.0	.0		.0	.6	.9	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	•0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	•0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	•0	.000000		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.00000000000000000000000000000000000000
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	•0	.0		.0	.0	.0	.0	.0	.0	5.1
TOT PCT	.0	.9	.5	.0	.0	•0	1,4		.6	2.5	2.0	.0	.0	.0	5.1

									JULY							
PERIOD:	(DVE	R-ALL)	1963-1	1976				TABLE	18 (CDA	(T)			AREA	34.		150
				PC	T FREQ C	F WIND	SPEED	(KTS)	AND DIR	ECTION	VERSUS	SEA HEIG	HTS (FT			
HGT	1-3	4-10	11-21	5 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	2.8	.0	.0	.0	.0	2.8						.0	.0	.5	
1-2	.0	5.9	1.7	.0	.0	.0	6.2						.0	.0	4.8	
3-4	.0	6.3	9.7	1.1	.0	.0	17.1						.0	.0	6.2	
5-6	.0	.0	6.8	.9	.0	.0	7.7		.0				.0	.0	2.8	
7	.0	.0	.6	.0	.0	.0	. 6		.0				.0	.0	.0	
8-9	.0	.0	1.1	.0	.0	.0	1.1					.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		• 0				.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		• 0				.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		• 0				.0	.0	.0	
26-32 33-40	.0	.0	.0	.0	.0	.0	.0		• •				.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0						.0	.0	.0	
61-70	.0	.0	.0	.0	:0	.0	.0		.0				.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	:0						:0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0						.0	.0	.0	
TOT PCT	.6	15.0	19.9	2.0	.0	.0	37.5		.0		9.4		.0	.0	14.4	
				W								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21		34-47	48+	PCT	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1		.0				.0	.0	.0	
1-2	. 6	2.9	.0	.0	.0	.0	3.5		.6				- 0	.0	2.9	
3-4	.0	1.7	.0	.0	.0	.0	1.7		.0		1.9		,0	.0	2.8	
5-6	.0	.0	1.5	.0	.0	.0	1,5		.0	. (.0	0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0		.0			.0	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0		.0					.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
15	.0	.0	.0	.0	.0	.0	.0		.0				. 0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	. 0		• 0				.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		• 0				.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
26-32 33-40	.0	.0	.0	.0	.0	.0	.0		• 9				.0	.0	.0	
	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
41-48	.0	.0	.0	•0	.0	.0	.0						.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0				:0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	0						:0	.0	.0	
87+	.0	:0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
TOT PCT	.6	5.7	1.5	.0	.0	.0	7.9				2.6		.0	.0	6.9	95.7
			1.0		••	••					2.0	••	••		0.,	

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.1	6.7	.0	.0	.0	.0	12.8	003
1-2	1.8	21.3	4.9	.0	.0	.0	28.0	
3-4	.6	13.4	19.5	1.2		.0	34,8	
5-6	.0	. 6	15.2	1.2	.0	.0	17.1	
7	.0	. 6	1.2	.0	.0	.0	1.8	
8-9	.0	.0	3.0	.6	. 6	.0	4.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0		.0	.0	
13-16	.0	.0	.0	1.2		.0	1.2	
17-19	.0	.0	.0	.0		.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								164
TOT PCT	8.5	42.7	43.9	4,3	.6	.0	100.0	

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1867-1977

TABLE 1

AREA 0028 VALPARAISO

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

											Con The State of	ACC 100			
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	SIG WEA
N NE	16.1	2.2	3.3	.0	.0	.0	.0	21.7	6.1	.0	6.7	.0	2.2	.0	63.3
	5.6	.0	11.1	.0	.0	.0	.0	16.7	2.8	.0	11.1	.0	22.2	.0	47.2
E	5.5	.0	.0	.0	.0	.0	.0	5.5	.0	.0	.0	.0	43.6	.0	50.9
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	97.3
S	.7	.0	1.3	.0	.0	.0	.0	2.0	.7	.0	2.7	.0	.0	.0	94.6
SW	.0	.0	.5	.0	.0	.0	.0	.5	1.8	.0	4.1	.0	4.1	.0	89.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	3.4	.0	93.2
NW	4.5	.0	4.5	.0	.0	.0	.0	9.0	9.0	.0	3.8	.0	1.5	.0	76.7
VAR	.0														
		.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	• 0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33.3	•0	.0	.0	66.7
TOT PCT TOT OBS:	3.2	.3	1.7	.0	.0	•0	.0	5.2	2.3	.0	4.6	•0	3.7	.0	84.1

TABLE 2

DEDCENT	EDEDLIENCY	DE	WEATHER	DECLIDERENCE	 HOUR

						CONTRACTOR OF THE PARTY.	The second second								
				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	SIG WEA
00603 06609 12615 18621	3.8 3.6 5.7 1.2	.0	1.3 2.7 1.1 2.4	.0	.0	.0	.0	5.0 7.2 6.9 3.6	2.5 .9 3.4 2.4	.0	5.0 4.5 4.6 3.6	•0	1.3 .0 5.7 8.4	.0	86.3 87.4 79.3 81.9
TOT PCT	3.6	.3	1.9	.0	.0	.0	.0	5.8	2.2	.0	4.4	•0	3.6	.0	83.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KN	TS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	PCT	SPD	00	03	06	09	12	15	18	21
N NE	1.2	6.2	4.7	2.2	•4	.0		14.7	13.1	15.3	18.2	12.5	12.4	13.8	9.5	16.8	16.3
E	.7	1.1	.2		.0	.0		2.0	6.1	1.2	.0	1.8	2.0	2.5	7.1	2.4	1.3
SE	.7	3.9	3.3	1.5	.1	.0		9.7	13.1	6.5	22.7	8.6	11.2	13.3	2.4	10.0	7.8
S	2.3	12.7	13.2	3,5	.4	.0		32.1	12.5	36.0	45.5	36.9	37.3	33.7	9.5	24.9	28.8
SW	1.4	7.0	4.6	1.0	.2	.0		14.2	11.0	15.7	4.5	14.2	11.2	10.3	28.6	14.4	20.2
W	1.1	3.4	2.1	.6	.2			7.4	11.1	7.8	.0	6.1	6.0	6.2	.0	8.5	10.3
NW	1.3	5.6	3.9	1.2	.5			12.6	12.2	9.4		11.3	13.2		9.5	15.5	11.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0
CALM	3.9							3.9	.0	6.2	.0	5.5	4.1	2.1	9.5	3.3	1.8
TOT OBS	404	1748	978	313	59	2	3004		11.6	453	11	493	416	469	21	800	341
TOT PCT	13.4	41.5	32.6	10.4	2.0	. 1		100.0		100.0	100.0	100.0	100.0	100.0			

TABLE 3A

		WIND	SPEED	(KNOTS)						HOU	R COMT)
WND DIR	0-6	7-16	17-27	28-40	41+	OBS	FREQ	SPD	00	06	12	18
N	4.0	6.0	3.4	1.1	.2		14.7	13.1	15.4	12.5	13.6	16.6
E	1.3	.6	.1	.0	.0		2.0	6.1	1.2	1.9	2.7	2.1
SE	2.2	4.4	2,4	.6			9.7	13.1	6.9	9.8	12.9	9.3
5	7.5	15.3	8,0	1.2			32.1	12.5	36.2	37.1	32.7	26.1
SW	4.1	7.5	2.0	.5	.1		14.2	11.0	15.4	12.8	11.1	16.1
W	2.8	2.9	1,2	.4	.1		7.4	11.1	7.7	6.1	6.0	9.0
NW	3.7	5.7	2,2	. 8	.2		12.6	12.2	9.4	12.2	12.2	14.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.9						3.9	.0	6.0	4.8	2.4	2.8
TOT DBS	944	1307	589	145	19	3004		11.6	464	909	490	1141
TOT PCT	31.4	43.5	19.6	4.8	. 6		100.0		100.0	100.0	100.0	100.0

i		٠		

PERIOD: (PRIMARY) 1907-1977 (CVER-ALL) 1867-1977

TABLE 4

AREA 0028 VALPARAISO 34.45 73.1W

FERL	ENTAGE	FREQUENCY	UF	MIND	SLEED	HUUK	(GM I)

HOUR	CALM	1-3	4-10	MIND 11-21	SPEED (34-47	48+	MEAN	PCT	TOTAL
£0300	6.0	9.1	40.7	32.5	10.1	1.5	. 0	11.2	100.0	464
90300	4.8	10.0	43.0	31.7	8.7	1.7	:ĭ		100.0	909
12615	2.4	11.0	45.1	28.6	10.8	1.8	.2		100.0	490
18621	2.8	8.9	39.2	35.0	11.7	2.5	.0	12.2	100.0	1141
TUT	116	288	1240	978	313	59	5	11.6		3004
PCT	3.9	9.6	41.5	32.6	10.4	2.0	.1		100.0	

TABLE

TABLE

			100	103.00														
•	CT FRE		DTAL (DIREC	TION	(EIGHTHS) MEAN					REQUEN							
WND DIR	0-2	3-4	5-7	8 & 085CD	TOTAL	COVER	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	1.7	.8	3.4	5.4		6.1	.4	.0	.4	.7	3.6	2.3	.0	.2	.0	.4	3.4	
NE	. 2	. 8	.9	1.0		5.8	.0	.0	.0	.1	.8	.0	.0	.0	.0	. 8	1.1	
E	.0	.4	.7	2.9		7,2	.0	.0	.0	.4	.3	.6	.4	.0	.4	1.3	.6	
SE	2.6	.4	1.0	1.6		3,8	.0	.0	.0	. 8	.2	.2	.0	.0	.0	. 8	3.6	
S	18.6	4.8	9.4	6.3		3,5	. 7	.0	.4	1.9	6.3	1.6	.0	.4	.4	.0	27.2	
SW	6.4	2.1	3.3	3.7		3,8	. 5	.0	.0	. 8	3.0	. 9	.0	.0	.0	.0	10.4	
W	1.7	1.5	1.0	2.7		4.8	.3	.0	.0	.0	2.3	.4	.0	.0	.0	.4	3.5	
NW	2.1	1.5	3.4	4.0		5,6	.1	.0	.0	1.1	3.8	1.1	.0	. 2	.0	.6	4.1	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	1.1	.4	. 8		3,6	.0	.0	.0	.4	.4	.0	.0	.0	.0	.4	2.7	
TOT OBS	91	35	61	74	261	4.4	• 5	0	2	16	94	19	1	2	2	12	148	261
TOT PCT	34.9	13.4	23.4	28.4	100.0	•	1.9	.0	, 8	6.1	20.7	7.3	.4	. 8	. 8	4.6	56.7	100.0

TABLE 7

CUMULATIVE PCT FRE	DF SIMULTANEOUS DCCURRENCE (NH >4/8) AND VSBY (NM)
--------------------	---

				VSBY (NM)			
CEILING	- OR	• UR	· DR	• OR	• DR	- OR	- OR	- DR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
• NR >6500	.8	4.9	5.3	5.3	5.3	5.3	5.3	5.3
■ OR >5000	1.5	5.7	6.1	6.1	6.1	6.1	6.1	6.1
■ DR >3500	1.5	6.1	6.4	6.4	6.4	6.4	6.4	6.4
■ DR >2000	6.4	12.9	13.3	13.6	13.6	13.6	13.6	13.6
■ OK >1000	18.6	31.1	33.7	34.1	34.1	34.1	34.1	34.1
■ OR >600	22.3	36.7	40.2	40.5	40.5	40.9	40.9	40.9
- DR >300	22.3	37.5	40.9	41.3	41.3	41.7	41.7	41.7
- OR >150	22.3	37.5	40.9	41.3	41.3	41.7	41.7	41.7
. OR > 0	22.3	37.5	42.0	42.4	42.4	42.8	43.2	43.6
TOTAL	59	99	111	112	112	113	114	115

TUTAL NUMBER OF OBS1 264 PCT FREQ NH 45/81 36.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 OBSCO OBS 22.4 10.8 9.4 7.6 5.4 3.6 7.6 9.0 22.7 1.4 277

PERIODI	(PRIMARY) (OVER-ALL)	TABLE 8	AREA		VALPA	73.1W	
		PERCENT FREO OF WIND DIRECTION VS OCCURRENCE OR NON-DOCCURR	ENCE	DF			

		P	ERCENT	FREO PREC	OF WIN	D DIRE	CTION TH VAR	VS QCC	URRENC!	DF VIS	IBILI	URRENC	E DF
SBY NM)		N	NE	•	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-77.
1/2	NO PCP	.0	.3	.0	.0	.5	.4	.0	.0	.0	1.2	2.3	
	TOT &	.0	. 3	.0	.0	.5	.4	.0	.0	.0	1.2	2.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
134		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
<2	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	PCP	1.2	.1	.0	.0	.0	.0	.0	.1	.0	.0	1.4	
<5	ND PCP	. 8	.1	. 1	. 1	. 6	.3	.5	.4	.0	.0	2.9	
	TOT \$	5.0	. 1	•1	.1	.6	. 3	, 5	.5	.0	.0	4.3	
	PCP	1.3	.1	.2	.0	.2	.1	.0	.7	.0	.0	2.6	
<10	NO PCP	3.6	. 6	2.2	1.3	3.5	3.1	1.7	2.7	.0	.6	19.3	
	TOT \$	4.9	.7	2.4	1,3	3.7	3.2	1.7	3.5	.0	.6	21.9	
	PCP	.0	.3	.0	.0	.6	.0	.0	.0	.0	.0	.9	
0+	NO PCP	5.6	1.0	1.4	3,7	34.7	12.0	4.1	5,6	.0	1.7	70.0	
	TOT %	5.6	1.3	1.4	3,9	35,2	12.0	4.1	5.6	.0	1.7	70.9	
	TOT MBS												347
	TOT PCT	13.0	2.6	4.0	5,3	40.0	15.8	6,3	9.6	.0	3,5	100.0	

TABLE 9

SBY NM)	SPD	N	NE	E	SE	S	SW	*	NW	PAR	CALM	PCT	TOTAL
	0-3	.0	•2	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	003
1/2	4-10	.0	.0	.0	.1	.2	.2	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.2	.0	.1	.4	.2	.0	.0	.0	1.0	1.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-71	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.6	.1	.0	.0	.0	.0	.0	.0	.0		.7	
	22+	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT \$.9	•2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	0-3	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	
2<5	4-10	.6	.0	.1	.1	.3	.2	.3	.1	.0		1.7	
	11-21	1.0	• 1	.0	.0	.2	.0	.2	.6	.0		2.1	
	22+	. 8	•1	.0	.0	•0	0	.0	.0	.0		.9	
	TOT \$	2.4	•2	•1	.1	•7	2	.5	.9	.0	.0	5.0	
	0-3	.2	.0	.7	.6	.3	.7	.2	.2	.0	1.0	3.6	
5<10	4-10	2.7	.7	1.0	.3	1.8	1.6	1.1	1.2	.0		10.2	
	11-21	2.2	.1	.0	.0	1.0	.7	.2	1.0	.0		5.2	
	224	.3		.0	.0	.5	.3	.2	.3	.0		1.7	
	TOT \$	5.4	.8	1.7	.9	3.6	3.3	1.6	2.7	.0	1.0	21.0	
	0-3	.5	.3	.3	.7	1.6	1.2	.6	.5	.0	3.6	9.4	
10+	4-10	3.5	1.0	.7	1.6	13.8	6.5	1.9	3.6	.0		32.5	
	11-21	2.5	.4	.0	.5	13.8	4.3	1.5	1.0	.0		24.1	
	22+	.0	.0	.0	.3	3.1	. 8	.3	.3	.0		4.9	
	TOT \$	6.5	1.7	1.0	3.0	32.3	12.8	4.4	5.5	.0	3.6	70.8	

AUGUST

PERIOD:	(PRIMARY)	1907-1977
	(DVER-ALL)	1867-1977

TABLE 10

AREA 0028 VALPARAISO 34.45 73.1W

PERCENT	FREQUENCY	OF C	EILING	HEIGHTS	(FEET, NH	>4/81 AM	U.

HOUR (GMT)	000	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	•0	.0	•0	5.2	15.5	6.9	.0	1.7	.0	6.9	36.2	63.8	58
90330	3.8	.0	•0	3.8	19.2	10.3	.0	.0	.0	2,6	39.7	60.3	78
12615	1.4	.0	2.8	2.8	26.8	5.6	.0	1.4	1.4	4.2	46.5	53,5	71
18621	1.6	.0	.0	16.1	17.7	4.8	1.6	.0	1.6	4.8	48.4	51.6	62
TOT PCT	1.9	.0	.7	6.7	20.1	7.1	.4	.7	.7	4.5	115	154 57.2	269

TABLE 11

TABLE 12

		PERCENT	FREQUE	NCY VSB	(MM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT	(1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
0300	3 1.6	8	.8	3.9	18.9	74.0	127	00803	.0	1.8	9.1	29.1	61.8	55
0380	9 2.0	.0	.0	7.0	20.1	70.9	199	06609	3,9	5.2	10.4	31,2	58.4	77
1261	5 2.4	.0	3.2	4.0	23.8	66.7	126	12815	1.4	5.6	16.9	33,8	49.3	71
1862	1 2.1	0	1.4	5.7	22.9	67.9	140	18821	1.6	3.3	21.3	29.5	49.2	61
TOT	12	.2	1,2	32 5.4	126	414	592 100.0	PCT	1.9	4.2	38	82 31.1	144	264

TABLE 13

					Marc .	•				
	PERC	ENT FR	EQUENC	Y UF R	ELATIV	HUM1	DITY B	Y TEMP	TOTAL	PCT
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ
65/69	.0	.0	.0	.0	.3	.0	.3	.0	2	2.9
60/64	.0	.0	.3	.3	.6	1.0	.6	.0	9	2.9
55/59	.0	.0	.0	.6	2.9	10.2	14.7	5.8	107	34.2
50/54	.0	.0	.0	1.3	4.8	10.5	26,2	14.1	178	56.9
45/49	.0	.0	.0	. 3	.3	1.9	1.9	1.0	17	5.4
TOTAL	0	0	1	8	28	74	137	65	313	100.0
DCT	0		. 2			22 6	42 8	20 8		

TABLE 14

	PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTION	N BY TI	EMP	
N	NE	E	SE	s	SW	W	NW	VAR	CALM
.0	.0	.0	.1	1.6	•0	.0	.0	.0	•0
7.3	1.2	1.1	2.1	10.5	4.0	2.6	3.2	.0	2.2
5.6	1.8	1.2	1.8	24.8	10.1	3.8	5.7	.0	2.2
13.2	3,3	2.3	4.9	40.2	15.8	7.0	8.9	.0	4.5

TABLE 15

	MEANS,	EXTREME	S AND	PERCEN	TILES	OF TEM	P (DE	G F) B	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	66	60	58	53	49	46	46	53.4	458
90300	66	58	57	53	48	46	43	52.5	913
12615	62	59	57	53	47	44	41	52.6	481
18621	67	63	60	55	50	48	45	55.2	1050
TOT	67	62	59	54	48	46	41	53.6	2902

	FERG	ENI FRE	ACENC.	OI KELA	. TAE U	OHIDIT	B1 400	•
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00203	.0	5.6	8,5	12.7	52.1	21.1	83	71
06609	.0	1.0	8.3	31.3	38.5	20.8	82	96
12815	.0	.0	6.5	15.2	47.8	30.4	85	92
18821	.0	5.2	10.4	29.9	42.9	11.7	80	77
TOT	0	9	28	76	151	72	83	336

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1867-1977

TABLE 17

AREA 0028 VALPARAISO 34.45 73.1W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

		-			-				
AIROSEA	45	49	53	57	61	65	TOT	W	WO
THP DIF	48	52	56	60	64	68		FOG	FOG
11/13	.0	.0	.0	.0	:6	:3	3	.0	1.0
9/10	.0	.0	.3	.0	.3	.3	3	.0	1.0
7/8	.0	.0	.0	.6	. 6	.0	4	.0	1.3
6	.0	.0	.3	1.3	.6	.0	6	.0	1.9
6	.0	.0	.3	1.3	.0	.0	6 5	.0	1.6
4	.0	.0	1.0	2.5	.0	.0	12	.6	1.6
3	.0	.0	1.6	5.7	.0	.0	23	.3	7.0
2	.0	.3	5.4	2.2	.0	.0	25	.6	7.3
1	.0	.0	6.3	1.0	.0	.0	23	.3	7.0
ō	.0	1.9	13.3	2.2	.0	.0	55	1.6	15.9
0 -1 -2 -3	.0	4.8	9.2	.0	.0	.0	45	1.0	13.3
-2	.0	5.1	6.7	.0	.0	.0	37	.6	11.1
-3	.0	6,3	3.2	.c	.0	.0	31	.0	9.8
-4	.0	4.1	1.6	.0	.0	.0	18	.0	5.7
-5	1.9	2,5	6	.0	.0	.0	16	.0	5.1
-6	.6	1.0	.6	.0	.0	.0	- 7	.0	2.2
-7/-8	.0	.3	.0	.0	.0	.0		.0	
-14/-16	.0	.3	.0	.0	:0	.0		:0	.3 299
TOTAL	10			••	.,	••			200
TUTAL	10		159					16	244
0		84		53		.6	315		
PCT	3.2	26.7	50.5	16.8	2.2	.0	100.0	5.1	94.9

PERIOD: (DVER-ALL) 1963-1977

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	. 8	.0	.0	.0	.0	. 8		0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	1.6	.0	.0	.0	3.8		1.6	.0	.0	.0	. 0	.0	1.6
3-4	.0	2.0	3.8	.0	.0	.0	5.8		.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	1.4	.8	.0	.0	2,2		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	.8	.0	.0	3,2		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	2.6	.0	.0	3,2		.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.8	.0	.0	.0	. 8		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60 61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	•0		.0	.0	.0	.0	0	.0	.0
TOT PCT	.0	5.0	8.7	4.2	.0	.0	17.9		1.6	.2	.0	.0	:0	.0	.0
TOT PCT	.0	5.0	0.7	4.2	.0	.0	11.00		1.0		.0	.6	.0	.0	2.4
ana a				E								22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21		34-47	48+	PCT
<1	.8	.6	.0	.0	.0	.0	1.4		.0	.4	.0	.0	.0	.0	.4
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.0	.0	• 2
7	.0	.0	.0	.0	.0	.0	•0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	•0		.0	.0	.0	.2	• •	.0	.2
10-11	.0	.0	.0	.0	.0	.0	• 0		:0	.0	.0	.8	0000000	.0	.0
12	.0	:0	.0	.0	:0	.0	• 0		.0	.0	.0	.0	• 0	:0	.0
13-16	• 0	.0	.0	.0	.0	.0	• 0		.0	.0	•0	:0	• 0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	:0	• 0	.0	.0
20-22	.0	.0	. 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	-0		.0	.0	.0	.0	:0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	.6	.0	.0	.0	.0	1.4		.0	. 8	.0	1.2	.0	.0	2.0

PERIOD:	Inve	0_41.1	1963-1						AUG	UST						VALPARA	
PERIOU	IUVE	N-ALL!	1703-1	1411				TABLE	18	(CONT)				AKEA			.18
				PC	T FREQ DI	-	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT)			
				5		200							22-33				
HGT <1	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10		22-33	34-47	484		
1-2	.0	9.7	.0	.0	.0	.0	1.8			.0	2.0			.0	.0		
3-4	.0	2.2	6.3	.0	.0	.0	9,1			.0	1.0			:0	.0		
5-6	.0	1.4	10.3	2.4	.0	.0	14.1			. 8	1.6			• 0	.0		
7	.0		.8	3.8	.0	.0	5.4			.0				:0	.0		
8-9	.0	.6	.0	2.4		.0	3,8			.0	.2			• 0	.0		
10-11	.0	.0			.0	.0	7.8			.0	.0			00000	.0		
12	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			0	.0	.0	
26-32	.0	.0	. 0	.0	.0	.0	.0			.0	.0			:0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
71-86	.0	.0		.0	.0	.0	.0			.0	.0			.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
TOT PCT	.0	16.5	22.0	9.1	.8	.0	48,4			. 8	6.2	4.2		.0	.0		
				w									NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21		34-47	48+	PCT	PCT
<1	.8	.0	.0	.0	.0	.0	. 8			. 8	.0			. 0	.0		
1-2	.0	.6	.0	.0	.0	.0	. 6			.0	1.8			.0	.0		
3-4	.0	.0	.0	.0	.0	.0	.0			.0	. 2			.0	.0		
5-6	.0	.0	. 8	. 8	.0	.0	1,6			.0	. 8			.0	.0		
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.2	0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0			,0	.0	.2		.0	.0	1.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0		0.	.0	.0		
12	.0	.0	.6	.0	.0	.0	. 6			.0	.0	.2	0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		1	.0	.0			:0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		*1	.0	.0			.0	.0		
71-86	.0	.0	.0	•0	.0	.0	.0		**	.0	.0			•0	.0		
87+	.0	.0	.0	.0	.0	.0	.0			.0				.0	.0	.0	
TOT PCT	.8	.6	1.4	. 8	.0	.0	3,6		;	. 8	2.8	2.6	1.6	.0	.0	7.7	96.8

			1					
	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(PT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	5.5	4.7	.0	.0	.0	.0	10.2	000
1-2	2.4	16.5	7.9	.0	.0	.0	26.8	
3-4	.0	5,5	11.0	. 8	.0	.0	17.3	
5-6	. 8	3,9	14.2	5.5	.0	.0	24.4	
7	.0	. 8	1.6	6.3	.0	.0	8.7	
8-9	.0	. 8	1.6	7.1	. 8	.0	10.2	
10-11	.0	.0	1.6	.0	.0	.0	1.6	
12	.0	.0	. 8	.0	.0	.0	. 8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								127
TOT PCT	8.7	32,3	38.6	19.7	.8	.0	100.0	

TABLE 1

AREA 0028 VALPARAISO 34.45 73.2W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	PCPN	HAIL	PCPN AT	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	2.8	.0	5.6	.0	.0	.0	.0	8.3	3.7	:0	9.3	.0	.0	.0	78.7
NE	2.2	.0	1.1	.0	.0	.0	.0	3.3	4.4		20.0	.0		.0	72.2
E	10.0	.0	.0	.0	.0	.0	.0	10.0	• 0	.0	26.7	.0	.0	.0	63.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	.0	.0	.0	91.8
S	.0	.4	.5	.0	.0	.0	.0	.9	.4	.0	3.0	.0	. 9	.0	94.9
SW	.0	.2	.0	.0	.0	.0	.0	.2	. 2	.0	3.0	1.0	. 2	.0	95.3
W	.0	0.8	.0	.0	.0	.0	.0	6.8	.0	.0	6.8	.0	.0	.0	86.4
NW	4.3	.0	9.6	.0	.0	.0	.0	13.8	4.3	.0	4.3	.0	.0	.0	77.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	90.9
TOT PCT	420	.5	1.2	.0	.0	.0	.0	2.4	1.0	.0	5.2	•2	.5	.0	90.7

TABLE 2

DERCENT	EREQUENCY	nE	WEATHER	DCCURRENCE	D V	HOLLE

			P	RECIPI	TATIO	TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HA'L	PCPN AT	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00603 06609 12615 18621	2.0 .8 .0	.0	.0 .8 3.1	.0	.0	.0	.0	2.0 1.5 3.1 2.8	1.0 3.8 .0	.0	3.1 6.1 9.2 8.3	.0	.0 .0	.0	93.9 88.6 87.8 86.1
TOT PCT TOT OBS:	436	.5	1.1	.0	.0	•0	•0	2.3	1.4	.0	6.7	•2	.5	.0	89.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WIN	D SPE	ED (KND	TS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N NE	1.7	5.4	2.8	:6	•1	.0		10.7	9.8	11.4	20.0	8.5	8.8	10.6	7.7	12.9	10.1
E	.5	1.0	.3		.0	.0		1.8	6.5	1.2	.0	1.4	1.6	2.7	.0	2.1	1.5
SE	. 8	2.9	3.9	1.6	.3	. 1		9.5	14.7	6.7	.0	8.1	12.2	11.6	15.4	8.4	12.2
S	2.5	13.2	16.0	4.2	.4	.0		36.2	12.9	37.5	55.0	40.9	37.1	38.2	7.7	32.9	32.4
SW	2.2	8.3	5.4	.7	• 1	.0		16.6	9.9	20.0	5.0	18.2	13.5	14.6	46.2	15.2	18.7
W	1.3	3.1	1.6	.6	•1			6.8	10.1	7.0	.0	4.7	8,8	3.7	7.7	8,5	7.2
NW	1.8	4.7	2.1	.8	.3			9.6	10.5	7.5	20.0	9.1	7.8	8.1	7.7	12.1	11.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.2			-				5.2	.0	5,3	.0	6.2	7.0	6.0	.0	3.7	3.8
TOT OBS	525	1243	1004	262	37	5	3076		10.8	469	5	516	413	480	13	841	339
TOT PCT	17.1	40.4	32.6		1.2	. 2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TA	A	1	F	2	Δ	

W	ND DIR	0-6	WIND 7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18 21
	N	4.5	4.4	1,5	.3			10.7	9.8	11.4	8.6	10.5	12.1
	NE	2.2	1.2	.2		.0		3.6	7.0	3.4	3.0	4.6	3.7
		1.2	. 5	.1	.0	.0		1.8	6.5	1.2	1.5	2.6	1.9
	E SE	2.1	3.3	3.3	.6	.2		9.5	14.7	6.6	9.9	11.7	9.5
	5	7.9	17.1	9,5	1.6	.1		36.2	12.9	37.7	39.2	37.4	32.8
	SW	5.9	7.9	2.5	.3	.0		16.6	9,9	19.8	16.1	15.4	16.2
	W	3.0	2.5	.7	.4	.1		6.8	10.1	7.0	6.5	3.8	8.1
	NW	4.1	3.6	1.4	.5	.1		9.6	10.5	7.6	8.5	8.1	12.0
	VAR	.0	.0	.0	.5	.0		.0	.0	.0	.0	.0	.0
	CALM	5.2		•	••			5.2	.0	5.3		5.9	3.7
	OT DBS	1108	1245	590	117	16	3076		10.8	474	929	493	1180
	OT PCT	36.0	40.5	19.2	3.8	.5	-0.0	100.0			100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1906-1977 (QVER-ALL) 1864-1977

TABLE 4

AREA 0028 VALPARAISU 34.45 73.2W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				MIND	SPEED (KNOTSI			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREG	DBS
60300	5.3	13.1	38.4	34.4	7.0	1.7	.2	10.9	100.0	474
90300	6.6	12.8	39.9	30.9	8,5	1.3	0		100.0	929
12615	5.9	14.4	42.2	29.0	7.3	1.2	.0		100.0	493
18421	3.7	9.7	40.8	34.8	9.7	.9	.3		100.0	1180
TOT	159	366	1243	1004	262	37	5	10.8		3076
PCT	5.2	11.9	40.4	32.6	8.5	1.2	. 2		100.0	20.0

				Ante >								TA	ABLE 6					
	PCT FRE		TOTAL (DIREC	TION	(EIGHTHS) MEAN			PERCEN	TAGE F	REQUEN	ICY OF	CEILIN NH 45/	B BY W	IND D	T, NH	34/81 ON	
WND DIR	0-2	3-4	5-7	085CD	TOTAL	COVER	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/B	
N	.6	.6	1.7	3.1		6,3	.0	.0	.0	.6	2.9	1.0	.0	.0	.0	.0	1.4	
NE	1.0	.6	.6	1.6		5.4	.3	.0	.0	.4	.6	.5	.0	.0	.0	.0	2.0	
E	.3	. 3	.6	.0		4.6	.0	.0	.0	. 2	. 3	.0	.0	.0	.0	.0		
SE	.6	1.0	.3	.6		4.2	.0	.0	.0	.0	.3	.6	.0	.0	.0	.0	1.6	
S	28.1	8.9	6.9	5.4		2.7	.0	.0	.0	1.9	4.1	1.4	.3	.0	.0	.0		
SW	13.0	1.5	5.5	4.5		3,3	.0	.0	.3	2.2	3.5	1.7	.0	.0	.3	.0	16.4	
W	1.1	.3	1.2	. 9		5.0	, 3	.0	.0	.3	.3	.6	.0	.0	.0	.0		
NW	.4	.7	2.7	2.3		6.3	. 3	.0	.0	.4	1.0	2.1	.0	.0	.0	.0	2.4	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1,6	.3	.6	. 6		3,5	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	2.2	
TOT DBS	147	45	63	60	315	3,5		0	• • •	20	42	25	• ;		••	.0	221	215
TOT PCT	46.7	14.3	20.0	19.0	100.0		1.0	.0	.6	6.3	13.3	7.9	. 3	.0	.3	.0	70.2	100.0

TABLE 7

CUMULATIVE PCT FREQ	OF SIMULTANEOUS DECURRENCE
OF CEILING HEIGHT	(NH >4/8) AND VSBY (NM)

				VSBY (NH	1)			
CEILING	- DR	• DR	- DR	• OR	. DR	- OR	# DR	= OR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
. OR >6500	.3	.3	.3	:3	.3 1.2	.3	.3	.3
■ OR >5000	.3	.3	.3	.3	.3	.3	.3	.3
# DR >3500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
■ DR >2000	8.4	9.0	9.0	9.0	9.0	9.0	9.3	9.3
- DR >1000	16.5	20.8	21.7	21.7	21.7	22.0	22.4	22.4
■ DR >600	20.8	26.4	28.0	28.0	28.0	28.3	28.6	28.6
# OR >300	21.1	26.7	28.6	28.6	28.6	28.9	29.2	29.2
■ DR >150	21.1	26.7	28.6	28.6	28.6	28.9	29.2	29.2
- R > 0	21.1	26.7	28.6	28.6	28.9	29.5	30.1	30.1
TOTAL	68	86	92	92	93	95	97	97

TOTAL NUMBER OF OBSI 322 PCT FREQ NH 45/81 69.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 OBSCD OBS 33.0 13.5 10.2 7.0 5.3 2.9 4.7 6.7 16.1 .6 342

5	E	D	•	F	M	A	E	0	

							921	. S. OCK						
PERIOD: (PRIMARY) 1 (OVER-ALL)	906-1977 864-1977						TA	BLE 8				ARE	A 0028 VALPARA 34.45 7	150 3.2W
		P	ERCENT	FREO	OF WIN	D DIRE	CTION TH VAR	VS DCC	URRENC	F VIS	IBILI	CURRENC	E DF	
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL	
<1/2	PCP NO PCP TOT &	.2	.0	.0	.0	.0	.0 .1	.2	.2	.0	.0	1.2		
	PCP	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0	.0		
1/2<1	TOT %	.2	.2	.0	.0	.5	.0	.0	.0	.0	.2	1.2		
1<2	PCP NO PCP TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	PCP	.2	.1	.0	.0	.2	.0	.0	.2	.0	.0	.7		
2<5	NO PCP	.4	.1	.5	.0	1.1	1.1	.2	.0	.0	.0	3.6		
5<10	PCP No PCP Tot %	2.4 2.6	1.8 1.9	. 2 . 5 . 7	1.3	7.1 7.3	3.1 3.2	1,0	.5	.0	.0	17.6		
10+	PCP ND PCP TOT %	2.8	3.1 3.2	.7 .7	1.7	38.4 38.4	19.9	2.1 2.1	4.0 4.3	.0	2.1 2.1			
	TOT OBS	6.4	5.4	1.8	2.9	47.6	24.2	3,5	5.6	.0	2.6	100.0	420	

-

							IMOSE	,					
				PERCEN	T FREQ	DF WI	ND DIR	ECTION S OF V	VS WI	ND SPE	ED		
VSBY (NM)	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.2	.0	.0	.0	.4	.1	.2	. 2	.0		1.0	
	11-21	. 2	.0	.0	.0	. 2	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	• 0	.0	.0	.0	.0	.0		.0	
	TOT %	. 3	•0	.0	•0	.5	.1	.2	.2	.0	.0	1.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	4-10	.2	.2	.0	.0	.3	.0	.0	.0	.0		.6	
	11-21	.0	• 0	.0	.0	• 0	.0	.0	.0	.0		.0	
	22+	.0	• 0	.0	.0	.0	.0	.0	.0	.0		•0	
	TOT %	.2	• 2	•0	•0	.3	.0	.0	.0	.0	.2	.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	• 1	• 1	.0	.0	.0	.0		.2	
	11-21	.1	.0	.0	.0	.0	.0	.0	. 1	.0		• 2	
	22+	.0	• 0	• 0	•0	.0	.0	.0	.0	.0	_	.0	
	TOT \$	•1	•0	• 0	•1	.1	.0	.0	.1	.0	.0	.3	
	0-3	-1	•0	.0	.0	.1	.2	.2	.1	.0	.5	1.1	
2<5	4-10	.2	•0	.3	•0	.5	.6	.1	.4	.0		2.1	
	11-21	.0	• 0	• 0	.0	.3		.0	.0	.0		.3	
	22+	.2	• 1	.0	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.4	•1	.3	•0	.9	.,	.2	.5	.0	.5	3.8	
	0-3	.1	•7	.2	.2	.4	.6	.2	.2	.0	1.0	3.3	
5<10	4-10	1.1	.6	.2	.4	1.9	.8	.6	.6	.0		6.0	
	11-21	1.0	.5	• 1	.4	3.2	1.2	.0	.2	.0		6.5	
	22+	-1	.1	•0	.0	.1	1	.2	.0	.0		5	
	TOT \$	2.2	1.9	.4	.9	5.5	2.7	.9	1.0	.0	1.0	16.3	
200	0-3	.2	.6	.2	.3	1.9	1.0	.5	.7	.0	3.6	9.0	
10+	4-10	2.7	1.7	.6	1.1	10.8	9.9	1.8	2.4	.0		31.1	
	11-21	1.6	1.0	.0	.4	17.0	8.7	.1	1.0	.0		29.8	
	22+	.0	.0	.0	• 2	6.1	1.2	.1	.0	.0		7.6	
	TOT %	4.6	3.3	.8	2.1	35.7	20.8	2.5	4.0	.0	3.6	77.5	
	OT OBS						24.4		5.7	.0			631
7	nt per	7.8	5.5	1.5	3.1	43.0	24.4	3.8	2.1	.0	3.2	100.0	

·c	c	0	т	E	M	R	ER	

PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1864-1977

TABLE 10

AREA 0028 VALPARAISO 34.45 73.2W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	.0	.0	1.3	3.9	10.4	2.6	1.3	.0	1.3	.0	20.8	79.2	77
06609	1.0	.0	•0	7.2	11.3	6.2	.0	.0	.0	.0	25.8	74.2	97
12615	1.3	.0	•0	7.9	13.2	13.2	.0	.0	.0	.0	35.5	64.5	76
18621	1.2	.0	1.2	4.8	15.7	9.6	2.4	.0	.0	.0	34.9	65.1	83
TOT	3	0	2	20	42	26	3	0	1 2	0	97	236	333

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT	CELLIN	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/DR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00803	.8	.0	.0	2.3	12.4	84.5	129	00803	.0	2.8	7.0	15,5	77.5	71
06609	1.4	.5	.5	4.1	17.3	76.4	220	06809	1.1	1.1	9.5	17.9	72.6	95
12615	3.0	2.2	.0	3.0	15.6	76.3	135	12615	1.4	2.7	13.5	24.3	62.2	74
18621	.0	1.2	.6	4.9	21.3	72.0	164	18821	1.2	2.4	9.8	25.6	64.6	82
TOT PCT	1.2	.9	.3	3.7	110	498	648	TOT	3	2.2	32	67	223	322

TABLE 13															TABL	E 14				
	PERC	ENT FR	EQUENC	OF R	LATIV	E HUMI	DITY B	Y TEMP	TOTAL	РЕТ		PERC	ENT PR	EQUENC	Y DF W	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	085	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0		.?	1.5	2:2	.0	.0	22	4.8	•0	.0	:0	.0	2.1	.0	•0	.2	.0	•0
55/59 50/54	.0	.0	•0	.7	6.5	12.4	20.4	7,2	198	43.0	4.7	3.7	1.6	2.1	17.9	7.6	3.1	3.5	.0	1.1
45/49 TOTAL	.0		•0	.0	.2	1.5	1.3	. 2	15	3.3		.0	.0	.4	1.3	1.6	1.1	2.6	.0	1.5
PCT	.0	.0		1.7	10.7	25.2	43.0	19.3	400	100.0	6.8	6.0	2.1	4.0	44.6	23.0	4.2	6.5	.0	2.8

TABLE 15 MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR TABLE 16

HOUR (GMT)	MAX	99%	95%	50%	5%	15	MIN	MEAN	TOTAL
00803	66	63	58	54	50	48	47	54.1	478
90300	67	59	57	53	49	46	44	53.0	935
12615	70	60	58	54	49	47	44	53.6	480
18621	72	65	61	56	51	49	47	55.9	1079
TOT	72	63	60	54	50	47	44	54.3	2972

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR HOUR (GMT)
00203 .0 1.0 9,5 27.6 45.7 16.2 81 105
00203 .0 1.4 11.0 14.5 49.7 23.4 83 145
12215 .0 .9 10,6 23.0 47.8 17.7 82 113
18221 .0 5.0 13.3 95.8 27.5 18.3 79 120
TOT 0 10 54 119 207 93 82 483 PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1864-1977

TABLE 17

AREA 0028 VALPARAISO 34.45 73.2W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)

VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

	A.1	45.	6.		• • • • •				
AIR-SEA	45	49	53	57	61	65	TOT	W	WO
THP DIF	48	52	56	60	64	68		FOG	FOG
14/16	.0	.0	.0	.0	.0	.5	2	.0	.5
9/10	.0	.0	.0	. 5	. 5	.0	4	.0	1.0
7/8	.0	.0	.3	1.0	.0	.0	5	.0	1.3
6	.0	.0	.3	1.3	.3	.0	7	.0	1.8
5	.0	.0	.5	3.1	. 3	.0	5 7 15	.0	3.9
4	.0	.0	1.3	2.6	.3	.0	16	.3	3.9
3	.0	.0	2.9	2.9	.0	.0	22	.0	3.9 3.9 5.7 7.8
2	.0	.5	5.5	2.3	.3	.0	33	. 8	7.8
ī	.3	1.3	8.8	1.3	.0	.0	45	.5	11.2
ő	.0	1.6	11.9	1.0	.0	.0	56	. 3	14.3
0	.0	2.6	10.4	.8	.0	.0	53	.5	13.2
-2	.0	6,8	5.7	.3	.0	.0	49	.5	12.2
-3	.0	4,2	4.7	.0	.0	.0	34	. 8	8.1
-4	.3	3.4	1.3	.0	.0	.0	19	.3	4.7
-5	.5	3,1	1.0	.0	.0	.0	18	.3	4.4
-6		3	.3	.0	.0	.0	2	.0	.5
-7/-8	.5	.3	.3	.0	.0	.0		.0	1.0
-1/-8	• • • •	.,	.,		.0	••	1		3
-9/-10	.3	.0	.0	.0	.0	.0	1	.0	140
TOTAL	7		212		6			16	369
-		92		66		5	385		
PCT	1.8	23.9	55.1	17.1	1.6	. 5	100.0	4.2	95.8

PERIOD: (DVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) NE 22-33 ... 0 ... HGT 11-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 26-32 26-32 26-32 41-48 49-60 61-70 71-86 87+ TQT PCT 1-3-6-00-00-00-00-00-00-00-0 70000000000000000000000 1-3 11-21 HGT
<1
1-2
3-4
5-6
7
8-9
10-11
12
13-16
17-19
20-22
23-25
26-32
33-40
61-70
71-86
87+
TOT PCT 1-3 34-47 4-10 34-47 4-10 1-3

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PAGE	291

D: (DV	EK-ALL) 199	0-197	7				TABLE	19											
				PERCENT	FRE	DUENCY ()F WA	VE HEI	GHT (F) VS	HAVE P	ERIOD	(SECON	05)						
<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
1.0	4.5	11.1	3.8	2.1	.7	.7	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	4
					1.7	1.0	1.7					.0							89	7
.0							.3		.3										61	7
.0							1.0												24	8
																			. 5	7
					.7														. 0	11
					.7														17	3
8	17		60	70	22				7		ō		0	0	0	0	0	0		6
2.8	5.9	22.1	20.8	24.2	7.6	3.1	3.5	7.6	2.4	.0	.0	.0	.0	•0	•0	.0	.0	.0	100.0	
	1.0 .3 .0 .0 .0	<1 1-2 1.0 4.5 .3 .3 .0 .3 .0 .0 .0 .0 .1 4 .7 8 17	<pre><1 1-2 3-4 1.0 4.5 11.1 .3 .3 3.8 .0 .3 1.7 .0 .0 1.0 .0 .0 1.0 .0 .0 0.0 1.4 .7 2.8 8 17 64</pre>	<pre><1 1-2 3-4 5-6 1.0 4.5 11.1 3.8 .3 3.8 10.4 .0 .3 1.7 4.8 .0 .0 1.0 1.4 .0 .0 1.0 0.8 .0 .0 0.0 3 1.4 .7 2.8 0 8 17 64 60</pre>	PERCENT 1 1-2 3-4 5-6 7 1.0 4.5 11.1 3.8 2.1 .3 .3 3.8 10.4 9.3 .0 .0 1.0 1.4 2.8 .0 .0 1.0 1.7 .0 .7 .0 .0 0 0 3 1.0 1.4 .7 2.8 .0 .0 8 17 64 60 70	PFRCENT FREG 1 1-2 3-4 5-6 7 8-9 1.0 4.5 11.1 3.8 2.1 .7 .3 .3 3.8 10.4 9.3 1.7 .0 .3 1.7 4.8 8.3 2.4 .0 .0 1.0 1.4 2.8 .0 .0 .0 1.7 .0 .7 1.4 .0 .0 .0 3 1.0 .7 1.4 .7 2.8 .0 .0 .7 8 17 64 60 70 22	PFRCENT FREQUENCY (PFRCENT FREQUENCY OF WAR <1 1-2 3-4 5-6 7 8-9 10=11 12 1.0 4.5 11.1 3.8 2.1 .7 .7 .0 .3 .3 3.8 10.4 9.3 1.7 1.0 1.7 .0 .3 1.7 4.8 8.3 2.4 .0 .3 .0 .0 1.0 1.4 2.8 .0 .3 1.0 .0 .0 1.7 .0 .7 1.4 .7 .3 .0 .0 0 3 1.7 .0 .7 1.4 .7 .3 .0 .0 .0 .7 .3 .0 .14 .7 2.8 .0 .0 .7 .3 .0 8 17 64 60 70 22 9 10	PERCENT FREQUENCY OF WAVE HET CONTROL OF WAVE	PERCENT FREQUENCY OF WAVE MEIGHT (FT C1 1-2 3-4 5-6 7 8-9 10-11 12 19-16 17-19 1.0 4.5 11.1 3.8 2.1 .7 .7 .0 1.4 .0 .3 3.8 10.4 9.3 1.7 1.0 1.7 2.1 .0 .0 .3 1.7 4.8 8.3 2.4 .0 .3 2.8 .3 .0 .0 1.0 1.4 2.8 .0 .3 1.0 1.0 1.0 2.8 .0 .3 1.0 1.0 1.0 2.8 .0 .3 1.0 1.0 1.0 2.8 .0 .3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	PERCENT FREQUENCY OF MAVE HEIGHT (FT) VS (1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 1.0 4.5 11.1 3.8 2.1 .7 .7 .0 1.4 .0 .0 .3 .3 3.8 10.4 9.3 1.7 1.0 1.7 2.1 .0 .0 .0 .0 .0 .0 .0 .0 .1 .0 1.4 2.8 .0 .3 2.8 3 .0 .0 .0 .0 1.0 1.4 2.8 .0 .3 1.0 1.0 .7 .0 .0 .0 1.7 2.1 .0 .7 1.4 .7 .3 .0 .3 1.0 .0 .0 .0 .0 .0 .3 1.0 .0 .0 .0 .1 .0 .0 .3 1.0 .0 .0 1.4 2.8 .0 .0 .7 3 .0 .0 .0 .0 1.4 2.8 .0 .0 .7 .0 .0 .3 1.0 .0 .0 .0 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PI <1 1-2 3-4 5-6 7 8-9 10-11 12 19-16 17-19 20-22 23-25 1.0 4.5 11.1 3.8 2.1 .7 .7 .0 1.4 .0 .0 .0 .3 .3 3.8 10.4 9.3 1.7 1.0 1.7 2.1 .0 .0 .0 .0 .0 1.0 1.4 2.8 .0 .3 2.8 .3 .0 .0 .0 .0 1.0 1.4 2.8 .0 .3 1.0 1.0 1.7 .0 .0 .0 .0 1.0 1.7 .0 .7 1.4 .7 .3 .0 .3 .0 .0 .0 .0 0 0 3 1.0 .7 .0 .0 3 1.0 0 .0 .0 1.0 1.7 .0 .7 1.4 .7 .3 .0 .3 1.0 0 .0 1.4 .7 2.8 .0 .0 .7 .3 .0 .0 .3 1.0 0 .0 8 17 64 60 70 22 9 10 22 7 0 0	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD <1 1-2 3-4 5-6 7 8-9 10=11 12 13=16 17=19 20=22 23=25 26=32 1.0 4.5 11.1 3.8 2.1 .7 .7 .0 1.4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PFRCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECON) <1 1-2 3-4 5-6 7 8-9 10-11 12 19-16 17-19 20-22 23-25 26-32 33-40 1.0 4.5 11.1 3.8 2.1 .7 .7 .0 1.4 .0 .0 .0 .0 .0 .0 .3 3 3.8 10.4 9.3 1.7 1.0 1.7 2.1 .0 .0 .0 .0 .0 .0 .0 .0 1.0 1.4 2.6 .0 .3 1.0 1.0 .7 .0 .0 .0 .0 .0 .0 1.0 1.4 2.6 .0 .3 1.0 1.0 .7 .0 .0 .0 .0 .0 .0 1.7 .0 .7 1.4 .7 .3 .0 .3 .0 .0 .0 .0 .0 .0 .0 .0 .3 1.0 .7 .0 .0 .0 .0 .14 .7 2.8 .0 .0 .7 .3 .0 .3 1.0 .0 .0 .0 8 17 64 66 70 22 9 10 22 7 0 0 0 0	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS) <1 1-2 3-4 5-6 7 8-9 10-11 12 19-16 17-19 20-22 23-25 26-32 33-40 41-48 1.0 4.5 11.1 3.8 2.1 7 .7 .0 1.4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS) <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 1.0 4.5 11.1 3.8 2.1 7 .7 .7 .0 1.4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .3 3 3.8 10.4 9.3 1.7 1.0 1.7 2.1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .3 1.7 4.8 8.3 2.4 .0 .3 2.8 .3 .0 .0 .0 .0 .0 .0 .0 .0 .0 1.0 1.4 2.8 .0 .3 1.0 1.0 .7 0 .0 .0 .0 .0 .0 .0 .0 .0 1.7 .0 .7 1.4 .7 .3 .0 .3 .0 .0 .0 .0 .0 .0 .0 .0 .0 .3 1.0 .7 .0 .3 1.0 1.0 .0 .0 .0 .0 .0 1.4 .7 2.8 .0 .0 .7 3 .0 .0 .0 .0 .0 .0 .0 8 17 64 60 70 22 9 10 22 7 0 0 0 0 0 0	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS) <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 1.0 4.5 11.1 3.8 2.1 .7 .7 .0 1.4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS) <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-66 1.0 4.5 11.1 3.8 2.1 7 .7 .0 1.4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS) <1 1-2 3-4 5-6 7 8-9 10=11 12 13=16 17-19 20=22 23=25 26=32 33=40 41=48 49=60 61=70 71=86 87+ 1.0 4.5 11.1 3.8 2.1 .7 .7 .0 1.4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS) <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-66 87+ TOTAL 1.0 4.5 11.1 3.8 2.1 7 .7 .0 1.4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.0	7.1	.5	.0	.0	.0	13.6	003
1-2	2.7	10.9	3.3	.0	.0	.0	16.8	
3-4	.0	11.4	18.5	2,2	.0	.0	32.1	
5-6	. 5	3.8	12.0	1.1	.0	.0	17.4	
7	.0	.5	7.1	3,3	.0	.0	10.9	
8-9	.0	, 5	1.6	1.1	.0	.0	3.3	
10-11	.0	.0	.0	2,2	.5	.0	2.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	1.1	1,6	,5	.0	3,3	
17-19	.0	.0	.0	.0		.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
	• •	•		• • •			•	184
TOT PCT	9.2	34.2	44.0	11.4	1.1	.0	100.0	
		-						

12	.0	.0	.0	.0	.0	.0		0		.0	0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0		0		.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0		0		.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0		0			0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0		0			0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0		0		.0	0	.0	.0	.0	.0	
33-40	.0	.0	.0	•0	.0	.0		0		.0	0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0		0		.0	.0	.0	.0	. 0	-0	
49-60	.0	.0	.0	.0	.0	.0		0			0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0		0		.0	ō	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0		0		0	0	.0	.0	. 0	-0	
87+	.0	.0	. 0	.0	. 0	.0		0		.0	o	.0	.0	.0	.0	
TOT PCT	.4	4.1	.0	.6	.0	.0	5.	1		.1 2.	5	1.1	.0	0000		
						WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)					
				HGT		0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT			
				<1		6.0	7.1	.5	.0	.0	.0	13.6				
				1-2		2.7	10.9	3.3	.0	.0	.0	16.8				
				3-4		.0	11.4	18.5	2.2	.0	.0	32.1				
				5-6		.5	3,6	12.0	1.1	.0	.0	17.4				
				7		-0	. 5	7.1	3.3	.0	-0	10.9				

									SEPTE	MBER								
PERIOD	(UVE	K-ALL)	1963-1	977				TABLE	18	(THOS				AREA	0028	VALP	73.	
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT	1			
				•									SW					
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10		22-33	34-47	48+	P	CT	
<1	. 4	1.0	.0	.0	.0	.0	1.4			.7	2.3		.0	.0	.0	3	.0	
1-2	1.2	2.1	1.1	.0	.0	.0	4.4			1.0	3.5		.0	.0	.0	6	.1	
3-4	.0	3.7	12.6	1.4	.0	.0	17.7			.0	3.6	3.3	,8	.0	.0		. 7	
5-6	. 4	1.5	8.0	1.0	.0	.0	10.9			. 1	. 7		.1	.0	.0	4	.0	
7	.0	.0	5.2	3.0	.0	.0	8.3			.0	.0		.3	.0	.0	1	.7	
8-9	.0	.0	1.0	.0	.0	.0	1.0			.0	. 6		.6	.0	.0	1	. 8	
10-11	.0	.0	.0	1.0	.6	.0	1.5			.0	.0		.7	.0	.0	1	.7	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0		.0		.0	
13-16	.0	.0	. 8	1.5	.4	.0	2.8			.0	.0	.3	.0	.0	.0		.3	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		. C	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
TOT PCT	2.1	8.3	28.7	7.9	1.0	.0	47.9			1.8	10.6	10.4	2.5	.0	.0	25	.3	
				W									NW					TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10		22-33	34-47	48+		CT	PCT
<1	.4	1.0	.0	.0	.0	.0	1.4			. 1	.1	.0	.0	.0	.0		.3	
1-2	.0	1.1	.0	.0	.0	.0	1.1			.0	.7	.6	.0	.0	.0		.2	
3-4	.0	1.0	.0	.0	.0	.0	1.0			.0	1.1		.0	.0	.0		.1	
5-6	.0	.6	.0	.0	.0	.0	.6			.0	.6		.0	.0	.0		.6	
7	.0	.6	.0	.0	.0	.0	.6			.0	.0		.0	.0	.0		.6	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
10-11	.0	.0	.0	.6	.0	.0	. 6			.0	.0		.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
23-25	. 0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
33-40	.0	.0	.0	•0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0		.0	
87+	.0	4.1	.0	.6	.0	.0	5.1			.0	2.5	1.1	.0	.0	.0		.7	_
TOT PCT	. 4																	96.7

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1864-1977

TABLE 1

34.55 73.0W

PERCENT	EDENIENCY	DE	MEATHER	DCCURRENCE	 WIND	DIRECTION

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRIG	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
N	5.9	.0	6.7	.0	.0	.0	.0	12.6	6.7	.0	3.4	3.4	3.4		70.6
NE	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	.0	21.1	.0	.0	.0	76.3
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	1.8		91.1
S	.5	.0	.0	.0	.0	.0	.0	.5	1.0	.0	.4	.0	1.4		96.6
SW	1.6	. 8	. 8	.0	.0	.0	.0	3.2	3.2	.0	5.0	.0	1.6		86.9
W	5.8	7.3	.0	.0	.0	.0	.0	13.1	2.9	.0	.0	.0	.0	.0	83.9
NW	.0	1.7	6.8	.0	.0	.0	.0	8.5	3.4	.0	3.4	3.4	.0	.0	81.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.6	.9	1.1	.0	.0	•0	.0	3,6	2,3	.0	2.5	.7	1.4	.0	89.5

TABLE 2

DEDCENT	EDECLIENCY	DE	WEATHER	DCCURRENCE	RV	MOLIE

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
(GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00203 06209 12215 18221	1.0 3.7 1.9	2.0 .7 1.0	1.0 1.5 2.9	.0	.0	.0	.0	3.9 6.0 5.7	2.0 2.2 2.9 1.8	.0	2.0 3.0 1.9 2.7	1.0 .0 1.9	2.0 .7 1.9	.0	89.2 87.3 85.7 94.6
TOT PCT TOT OBS:	1.8	.9	1.3	.0	.0	•0	.0	4.0	2.2	.2	2.4	.7	1.3	.0	89.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KN	DTS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N NE	1.2	3.4	1.6		• 1	.0		6.6	9.2	5.7	.0	6,3	5.5	5.3	.0	9.5	5.8
E	.3	.6	. 1	.0	.0	.0		1.0	6.3	.4	.0	.8	1.6	1.6	.0	1.1	1.0
SE	2.5	14.4	20.5	4.7	•1	.0		7.7	12.3	5.8	8.3	7.4	8.6	10.9	2.3	7.9	5.6
SW	2.4	8.5	7.8		.0	.0		42.3	13.0	24.8	25.0	19,9	11.9	42.3	31.8	35.1	23.8
NW	8	4.2	1.9	.2	.1	.0		7.2	9.2	6.0	8,3	6.9	5,5	7.9	2.3	8.1	9.1
VAR	1.1	5.6	2.6		•2	.0		9.9	9.8	8.5	.0	8.2	8.7	9.2	.0	12.9	11.5
CALM	4.2							4.2	.0	3,5	.0	4.2	7.5	4.9	9.1	3.0	2.4
TOT OBS	13.5	40.7	37.6	7,5	.7	.0	2999	100.0	11.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

	_			

WND DIR	0-6	7-16	SPEED 17-27		41+	TOTAL	PCT	MEAN SPD	00	HDU1 06 09	12 15	18 21
N	2.9	2.7	. 9	.2	.0		6.6	9.2	5.6	5.9	5.0	8.3
	. 8	.6	.1	.1	.0		1.5	8.5	1.1	. 8	2.1	2.0
	.6	.3	. 1	.0	.0		1.0	6.3	.4	1.2	1.6	. 8
SE	2.1	3.4	1.9	.3	.0		7.7	12.3	5.8	7.9	10.5	7.1
NE E SE S	7.7	20.9	12.5	1.2			42.3	13.0	44.5	47.5	41.8	36.8
SW	6.2	9.3	4.0	.2	.0		19.7	10.6	24.8	16.4	17.6	21.2
3W	2.9	3.5	.7	.1	.0		7.2	9.2	6.1		7.7	8.4
NW	3.9	4.6	1.2	.1	.1		9.9	9.8	8.3	8.4	8.7	12.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	
CALM	4.2		•		••		4.2	.0	3.4	5.6	5.1	2.8
TOT DBS	935	1355	639	65	5	2999		11.0	493	975	450	1081
TOT PCT	31.2	45.2	21.3	2.2	5	.,,,	100.0			100.0		

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PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1864-1977

TABLE 4

AREA 0028 VALPARAISU 34.55 73.0W

PERCENTAGE FREDUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND	SPEED (48+	MEAN	PCT	TOTAL
£0300	3.4	10.1	39.4	38.5	7.7	.8	.0	11.2	100.0	493
90330	5.6	10.2	41.2	35.8	6.5	.7	.0		100.0	975
12615	5.1	9.6	40.2	38.2	6.0	.9	.0		100.0	450
18421	2.8	8.1	41.0	38.6	9.1	.5	.0		100.0	1081
TUT	125	280	1220	1128	226	20	0	11.0		2999
PLT	4.2	9.3	40.7	37.6	7 5	7	. 0		100 0	

TABLE 5

TADIC .

												1 5	ABLE D					
,	PCT FRE	Q OF 1	TOTAL NIN	CLOUD A	TION	(EIGHTHS) MEAN			PERCEN	TAGE I	REQUEN	ICY DE	CEILIN	B BY H	HTS (FT, NH	>4/8) IN	
WND DIR	0=2	3-4	5-7	3 6	TOTAL	COVER	000 149	150 299	300 599	999	1999	2000 3499	3500 4999	5000	6500 7999	8000+	NH <5/8 ANY HGT	
N	.5	.4	1.2			6.7	.0	.0	.3	1.1	2.9	.8	.0	.0	.0	.0	1.8	
NE	. 3	. 4	.4	1.0		5,9	.3	.0	.1	.0	.1	.3	.0	.0	.0	.0	1.2	
E	.0	.0	.0	. 5		8,0	.0	.0	.2	.0	.3	.0	.0	.0	.0	••		
SE	.3	.4	.5	. 3		4.6	.0	.0	.0	. 3	.3	.0	.0	.0		.0	0	
S	21.0	6.5	9.6	8,3		3,5	.0	.0	. 0	1.5	3.2	5.1			.0		1.0	
SW	11.4	3.2	5.6	6,5		4.0	.3	.0		1.5			.6	.2	.0	1.9	32.0	
w	2.0	. 7	3.1	2,3		5.4			.0		4.1	1.9	. 3	.1	.3	1.0	16.6	
NW	.5	. 7					.0	.0	,0	. 0		. 8	.0	. 3	.0	. 3	4.8	
			2.2	3,8		6.4	.0	.6	. 3	1.0	.5	1.6	.3	.6	.0	.0	2.3	
VAR	.0	.0	• 0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.6	.6		6.0	.0	.0	.3	.0	.0	.0	.0	.3	.0	.0	. 9	
TOT OBS	124	42	79	96	341	4,3	2	2	11	20	42	36	4	5	1	11	207	341
TOT PCT	36.4	12.3	23.2	28.2	100.0		.6	.6	3,2	5.9	12.3	10.6	1.2	1.5	. 3	3.2	60.7	100.0

TABLE 7

CUMUI ATTVE	PCT EDEA	OF SIMULTANEOUS	DECHERENCE
OL CETETA	AR WEIGHT	(NH >4/8) AND V	SBY (NM)

				VSBY (NE	1)			
CEILING	OR	• DR	- DR	· OR	• DR	- OR	· DR	- DR
(FEFT)	>10	>5	>5	>1	>1/2	>1/4	>50YD	>0
	1.7	3.4	3.4	3,4	3.4	3.4	3.4	3.4
R >5000	3.1	5.1	5.1	5.1	5.1		5.1	5.1
OK >3500	4.0	6.3	6.3	6.3	6.3			6.3
DR >2000	13.4	16.9	16.9					16.9
OR >1000	22.0	29.4	29.4					29.4
DR >600	25.1	34.6	35.1					35.1
DR >300	26.9	36.9	38.0	38.6	38.6			38.6
DR >150	27.1	37.4	38.6	39.1	39.1			39.1
0 < 50	27.1	37.4	38.6	39.1				39.7
TOTAL	95	131	135	137	136	139	139	139
	OR >6500 OR >5000 OR >5000 OR >2000 OR >1000 OR >600 OR >300 OR >300 OR >500 OR > 150 OR > 0	(FEFT) >10 R >6500 1.7 R >6500 3.1 R >5000 3.1 R >2000 13.4 R >1000 25.1 R >600 25.1 R >900 26.9 R >150 27.1 R > 0 27.1	(FeFT) >10 >5 OR >6500 1.7 3.4 OR >5000 3.1 5.1 OR >5000 13.4 5.1 OR >2000 13.4 16.9 OR >200 22.0 29.4 OR >600 25.1 34.6 OR >600 26.9 36.9 OR >150 27.1 37.4 OR > 0 27.1 37.4	(FEFT) >10 >5 >2 OR >6500 1.7 3.4 3.4 OR >5000 3.1 5.1 5.1 OR >5000 4.0 6.3 6.3 OR >2000 13.4 16.9 16.9 OR >100 22.0 29.4 29.4 OR >600 25.1 34.6 35.1 OR >500 26.9 36.9 38.0 OR >150 27.1 37.4 38.6 OR > 0 27.1 37.4 38.6	CEILING OR OR OR OR OR OR FETTI NO. ST. ST. ST. ST. ST. ST. ST. ST. ST. ST	(FEFT) >10 >5 >2 >1 >1/2 OR >6500 1.7 3.4 3.4 3.4 3.4 3.4 OR >5000 3.1 5.1 5.1 5.1 3.1 OR >5000 3.1 5.1 5.1 5.1 3.1 OR >5000 4.0 6.3 6.3 6.3 6.3 6.3 OR >1000 22.0 29.4 29.4 29.4 OR >100 25.1 34.6 35.1 35.1 35.1 OR >500 25.1 34.6 35.1 35.1 35.1 OR >500 25.1 34.6 35.1 35.1 35.1 OR >500 25.1 37.4 38.6 39.1 39.1 OR >500 27.1 37.4 38.6 39.1 39.4 OR >500 27.1 37.4 38.6 39.1 39.4	CETIING *** OR *** OR	CEILING "OR

TOTAL NUMBER OF DESI 350

PCT FREQ NH <5/81 60.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 9 4 5 6 7 8 OBSCO OBS 20.5 13.8 14.5 7.9 4.2 2.8 9.8 3.4 22.8 .6 356

0				

.0

.0

6.7

7.8

.0 .2 .7 68.2 .7 68,4

1.1 100.0

440

PCT TOTAL

								LOOP						
PERIOD: (PRIMARY) 1 (OVER-ALL) 1	907-1977 864-1977						TA	BLE B				ARE	A 0028	73.0
		PE	RCENT	PREC	F WIN	D DIRE	TH VAR	VS DCC	URRENC ALUES	E DR N	ON-OCC	URRENC	E OF	
VSBY		N	NE	E	SE	5	SW		NW	VAR	CALM	PCT	TOTAL	
	PCP	.0	.2	.0	.0	.0	.7	.0	.0	.0	.0	.0		
<1/2	ND PCP	.0	. 2	.0	.0	.0	.7	.0	.0	.0	.0	. 9		
	TOT \$.0	. 2	.0	.0	.0	.7	.0	.0	.0	.0	.9		
	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2		
1/2<1	NO PCP	.0	.2	.0	.0	.2	. 3	.0	.0	.0	.0	. 7		
	TOT \$. 2	.2	.0	.0	.2	.3	.0	.0	.0	.0	.7		
	PCP	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5		
1<2	NO PCP	.0	. 2	.0	.0	.0	. 2	.0	.0	.0	.0	. 5		
	TOT \$.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.5		
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2<5	NO PCP	.0	.0	.0	.0	.0	.5	.0	. 5	.0	.0	1.4		
	TOT \$.5	.0	.0	.0	.0	.5	.0	.5	.0	.0	1.4		
	PCP	.6	.1	.0	.0	.2	.7	. 8	. 3	.0	.0	2.7		
5<10	NO PCP	2.1	.6	.2	2.2	9.7	6.3	1.5	1.8	.0	.5	24.8		
5.3.3	TOT &	2.7	. 7	.2	2.2	9.9	7.0	2.3	2.1	.0	. 5	27.5		

1.0 33.6 19.3 1,0 33.6 19.5

.4 3.2 43.7 28.2

.8

6.8 2,2 .2

PCP NO PCP TOT %

TOT PET

10+

TABLE 9 PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY SPD KTS 0-3 4-10 11-21 22+ TOT % VSBY NW VAR CALM .00.00 <1/2 .0 .0

.1 .5 .0 .7 .0 .1 .0 .2 .0 .1 000000 000000 000000 000000 .00.00 .000.00 .00.1 .00.01 1/2<1 0-3 4-10 11-21 22+ TOT \$.000.00 .0 0-3 4-10 11-21 22+ TOT % .0 1<2 .0 2<5 4-10 11-21 22+ TOT % .0 .4 .1 .6 1.0 2.2 3.0 .1 .1 0-3 5<10 4-10 11-21 22+ TOT % .3 1.0 .8 .2 2.4 1.0 2.6 4.6 1.5 9.7 1.1 .6 .5 .4 .0 4.0 26.5 34.2 6.0 70.8 0-3 4-10 11-21 22+ TOT % .2 .0 1.0 .0 .2 .7 9.6 .6 19.7 .0 4.4 1.3 34.1 8.2 9.3 1.2 19.4 1.9 .3 1.6 1.9 .1 2.6 1.4 .2 4.5 .3 00000 10+ 1.9 THT DAS 701 6.7 1.9 .5 2.9 44.6 27.4 6.3 6.7 .0 3.1 100.0

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PERIODI	(PRIMARY)	1907-1977
	(DVER-ALL)	1864-1977

TABLE 10

AREA 0028 VALPARAISO 34,55 73.0%

PERCENT	FREQUENCY	OF	CE	LLIN	G	HEIGHT	S	FEET, NH	>4/8)	AND

HOUR (GMT)	000	150 299	300 599	999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
60300	.0	1.1	4.6	.0	12.6	14.9	.0	2.3	.0	3.4	39.1	60.9	87
90300	.0	.0	4.0	6.9	12.9	9.9	2.0	1.0	1.0	4.0	41.6	58.4	101
12615	1.2	1.2	2.4	9.4	12.9	7.1	2.4	.0	.0	2.4	38.8	61.2	85
18821	1.2	.0	2.4	6.1	11.0	9.8	.0	3.7	.0	2.4	36.6	63.4	82
TOT PCT	.6	.6	3.4	20 5.6	12.4	37 10.4	1.1	1.7	.3	3.1	139	216	355 100.0

TABLE 1

TABLE

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.7	.0	1.4	1.4	24,3	72.3	148	00803	.0	5.7	6.9	33,3	59.8	87
06609	1.6	.0	.4	3.6	27.9	66.4	247	06609	.0	4.0	12.0	31.0	57.0	100
12615	.0	2.1	.7	2.7	23,3	71.2	146	12815	1.2	4.9	16.0	25.9	58.0	81
18621	1.2	.6	.0	1.2	22.1	75.0	172	18821	1.2	3.7	9.8	26.8	63.4	82
TOT	7	4	4	17	177	504	713	TOT	2	16	39	103	208	350

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 085 FREQ

65/69 .0 .0 .0 .0 .5 .0 .2 .0 85 FREQ

65/69 .0 .0 .0 .0 .5 3.9 2.8 2.1 .0 40 9.3

55/59 .0 .0 .0 .7 5.6 15,3 22.7 10.0 234 54.3

55/59 .0 .0 .0 .0 .5 1.5 1.0 19.3

55/49 .0 .0 .0 .0 .5 1.2 10.9 145 33.6

45/49 .0 .0 .0 .0 .0 1.4 11.6 24.4 41.3 21.3

TABLE 14

PERCENT FREQUENCY OF MIND DIRECTION BY TEMP

N NE E SE S SM H NN VAR CALM

.0 .2 .0 .0 .2 .2 .0 .0 .0 .0

.6 .3 .2 1.2 3.8 2.0 .9 .3 .0 .0

3.0 1.1 .2 2.9 23,3 14.2 3.4 3.9 .0 2.3

3.2 .6 .0 .8 13.4 11.0 2.2 2.3 .0 .2

.0 .0 .0 .0 .2 1.9 .0 .0 .0 .0

6.8 2.2 .4 4.8 40.9 29.3 6.6 6.4 .0 2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MAX 99% 95% 50% 5% 1% MIN HEAN TOTAL

OBS

60 60 60 55 51 50 48 55.4 487

5 64 61 59 55 50 48 46 54.1 976

5 64 61 59 55 50 48 46 54.9 437

1 70 66 63 58 53 50 48 57.7 963

70 64 61 55 51 49 46 55.6 2863

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL
(GMT)
00803 .0 .0 12.4 22.5 41.6 23.6 83 89
00809 .0 .8 7.5 19.5 43.6 28.6 84 133
12815 .0 .0 10.3 23.4 42.1 24.3 83 107
18821 .0 6.0 19.0 31.0 34.5 9.5 77 116
TOT 0 8 54 107 180 96 82 445

OCTOBER

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1864-1977

TABLE 17

AREA COZE VALPARAISO

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	49	53	57	61	65	TOT	W	WD
THP DIF	52	56	60	64	68		FDG	FOG
14/16	.0	.0	.0	.0	.5	2 3	.0	.5
11/13	.0	.0	.3	. 5	.0	3	.0	. 8
9/10	.0	.0	.3	.0	.0	1	.0	.3
7/8	.0	. 3	1.1	1.3	.0	10	.0	2.6
	.0	.3	1.6	.3	.0	8	.0	2.1
5	.0	.5	2.1	.3	. 3	12	.0	3.2
4	.5	1.1	1.8	1.1	.0	17	.0	4.5
3	.0	2.6	5.0	.0	.0	29	.0	7.6
2	.3	4.5	3.9	.0	.0	33	1.1	7.6
1	.0	10.3	3.4	.5	.0	54	.0	14.2
ō	1.6	9.5	2.6	.0	.0	52	.3	13.4
2 1 0	2.4	10.8	3.2	.0	.0	62	.3	16.1
-2	1.6	9,2	1.6	.0	.0	47	.5	11.8
-3	1.3	4.2	.5	.0	.0	23	.0	6.1
-4	1.3	2.4	.5	.0	.0	16	.0	4.2
-5	. 8	1.1	.0	.0	.0	7	.0	1.8
-6	.5	.0	.0	.0	.0	2	.0	.5
-7/-8	.5	.0	.0	.0	.0	2 2	.0	.5
TOTAL	41		106		3	_	8	372
	_	215		15		380		
PCT	10.8	56.6	27.9	3.9	. 8	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

								T,	ABLE	18						
				PC	T FREO	DF WIND	SPEED	(KTS)	AND	DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)		
HGT	1-3			N	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	4-10	11-21	22-33	.0		-4			,5	-10	.5	.0	.0	.0	PCT 1.5
1-2	1.0	1.8	1.4	.0	.0	.0	4,2			,0	.6	.5		:0	.0	
3-4	.0	1.9	1.6	.0	.0	.0	2.5			.0	.0	.3	.0	:0	.0	1.1
5-6	.0	.0	1.0	.0	.0	.0	1.0			.0	:0	.0	.0	.0	.0	.0
7	.0	.5	.0	.0	.0	.0	.5			,0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	:0	:0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0		.0	.0			.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	0	0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
41-48	.0	:0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3,5	4.0	•0	.0	.0	8,6			.5	1.1	1.3	.0	.0	.0	2.9
				E									5.5			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	. 5	.0	.0	.0	.0	,5			.0	1.1	.5	.0	.0	.0	1.6
1-2	.0	.0	.0	.0	.0	.0	.0			.0	.0	.3	.0	.0	.0	.3
3-4	.0	.0	.4	.0	.0	.0	.4			.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.1	.0	.0	.0	.0	.1
7	.0		.0	.0	.0	.0	000000000000000000000000000000000000000			.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	• 0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	,0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	,0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	,0			.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	. ?	•0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	,0			.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.000			.0	.0	.0	.0	.0	.0	.0
TOT 957	.0	.0	.0	.0	.0	.0	.0			.0	1.0	.0	.0	.0	.0	.0

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PERIODI	/ DVE	9-4111	194						DCTO	BER					0028	V4. 0.0	
PER 1001	TOVE	N-ALL!	1963-1	.471				TABLE	16 (CONTI				AKEA	34	VALPARA	- OM
				PC	T FREQ DE	WIND	SPEED	(KTS)	AND	DIREC	TION	VERSUS S	SEA HEIG	HTS (FT	,		
HGT	1-3	4-10	11-21	5 22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.3	.4	.0	.0	.0	1.6			.5	2.3	.1	.0	.0	.0	2.9	
1-2	1.3	2.3	7.4	.0	.0	.0	11.0			. 8	2.9		.0	.0	.0	8.6	
3-4	.0	4.7	4.4	1.5	.0	.0	10.6			.0	5.8	4.7	.0	.0	.0	10.5	
5-6	.0	1.9	5.2	1.0	.0	.0	8.1			.0	.5		.0	.0	.0	1.9	
7	.0	.4	5.7	1.3	.0	.0	7.3			.0	.1		.3	. 0	.0	1.3	
8-9	.0	.0	1.8	1.0	.5	.0	3,3			.0	.0		.0	0	.0	2.3	
10-11	.0	.0	.5	.4	.0	.0	.9			.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
1-48	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
9-60	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
1-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
OT PCT	1.3	10.5	25.4	5.2	.5	.0	42.8			1,3	11.6	14.3	.4	.0	.0	27.5	
				w									NW 22-33				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	484	PCT	PCT
<1	.0	.4	.0	.0	.0	.0	. 4			.0	. 1	.0	.0	.0	.0	.1	
1-2	.0	1.4	1.5	.0	.0	.0	2.9			1.0	2.7		.0	.0	.0	5.3	
3-4	.0	2.0	1.0	.0	.0	.0	3.0			.0	.1		.0	.0	.0	.9	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0	.5	.0	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.5	
8-9	.0	.0	.0	.4	.0	.0	.4			.0	.0		.1	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
13-16	.0	.0	•0	.0	.0	.0	.0			.0	.0		•0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0				.0	.0		.0	:0		.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	:0	.0	.0	
49-60				.0												.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	•0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0		.0	.0	:0			.0	.0			:0	.0	.0	
DT PCT	.0	3.8	2.5	.0	.0	.0	6.7			1.0	2.9	3.4	.0	:0	.0	7.4	99.
01 -61	.0	3.0	2.3	. •	.0	.0	0,1			1.0		3,4	• 1	.0		1.4	79.1

		MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)			
	HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT	
	<1	2.0	6.5	1.5	.0	.0	.0	10.0	003	
	1-2	5.5	11.4	17.4	.0	.0	.0	34.3		
	3-4	.0	13.4	12.9	1.5	.0	.0	27.9		
,	5-6	.0	2,5	8.0	1.0	.0	.0	11.4		
	7	.0	1.0	7.0	1,5	.0	.0	9.5		
	8-9	.0	.0	4.0	1,5	.5	.0	6.0		
	10-11	.0	.0	.5	. 5	.0	.0	1.0		
	12	.0	.0	.0	.0	.0	.0	.0		
	13-16	.0	.0	.0	.0	.0	.0	.0		
	17-19	.0	.0	.0	.0	.0	.0	.0		
	20-22	.0	.0	.0	.0	.0	.0	.0		
	23-25	.0	.0	.0	.0	.0	.0	.0		
	26-32	.0	0	.0	.0	.0		.0		
	33-40	.0	.0	.0	.0	.0	.0	.0		
	41-48	.0	.0	.0	.0	.0	.0	.0		
	49-60	.0	• 0	.0	.0	.0	.0	,0		
	61-70	.0	.0	.0	.0	.0	.0	.0		
	71-86	.0	.0	.0	.0	.0	.0	.0		
						.0	.0	.0		
	87+	.0	.0	.0	.0	.0	.0	.0	201	
	TOT PCT	7.5	34.8	51.2	6.0	.5	.0	100.0	201	

PERIO	01 (0)	ER-ALL) 195	0-1977					TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HE !	GHT (F	T) VS	WAVE P	ERIGO	(SECON	051						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
6-7	.7	9.0	10.3	5.0	3.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	4
6-7	.3	1.7	5.0	4.7	4.7	4.0	3.7	.0	.3	:0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	6
8-9	.0	1.0	3.3	3.7	4.0	4.3	2.3	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	7
10-11	.0	. 3	.7	3.3	3.3	1.3	2.7	1.3	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	8
12-13	.0	.0	.0	.7	.7	.3	1.0	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	9
313	.0	.0	.0	. 3	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	•0	.0	.0	.0	.0	3	9
1NDET	.7	.0	1.3	1.7	1.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
TOTAL	5	36	62	58	53	37	30	10	7	2	Ö	0	Ö	0	0	0	0	0	0	300	6
PCT	1.7	12.0	20.7	19.3	17.7	12.3	10.0	3.3	2.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1869-1977

TABLE 1

AREA 0028 VALPARAISO 73.0W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
N	2.9	.0	2.9	.0	.0	.0	.0	5.7	2.1	.0	.0	•0	.0		92.1
NE	10.8	.0	5.4	.0	.0	.0	.0	16.2	1.4		.0	.0	5.4	.0	77.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	2.8	.5	1.0		95.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.2	.4		95.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0		95.7
NW	.0	.0	10.5	.0	.0	.0	.0	10.5	.0	.0	.0	.0	.0		89.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	372	.0	1.1	.0	.0	•0	.0	1.9	.5	.0	2.4	.3	.8	.0	94.1

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

					-4	N TYPE						WEATHER	DUENE		
				Keribi	TATIO	HITTE					UTHER	MENTUEK	PHENU	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND S1G WEA
00603 06609 12615 18621	1.0 2.0 .0	.0	2.0 2.2 .0	.0	.0		.0	1.0 4.0 2.2	.0 2.2 .0	.00	1.0 .0 7.5 1.2	.0 .0 1.1	1.0	.0	97.0 96.0 86.0 97.6
TOT PCT	379	.0	1.1	.0	.0	•0	.0	1.8	.5	.0	2.4	.3	.8	.0	94.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WIN	D SPE	ED (KN	TS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N NE	1.5	2.9	1.3	.2	.0	.0		5.9	8.3	5.3	7.7	3.3	3.9	6.7	3.1	9.3	5.5
E SE	.3	.2	. 1	.1	.0	.0		.7	8.7	.9	.0	.6	.4	1.0	.0	.9	. 2
S	3.1	13.0	20.9	8.0	• 2	.0		45.7	15.0	43,4	44.2	5.8	52.8	50.1	35.9	5.1 39.0	4.9
SW	2.0	10.1			•1	.0		22.6	11.6	28.8	48.1	22.8	14.8	18.0	23.4	22.8	26.4
NW	1.5	3.6	1.9	.3	•0	.0		7.3	8.4	6.4	.0	5.7	6.0	4.3	6.3	10.5	7.7
CALM	4.3	.0	.0	.0	.0	.0		4.3	.0	3.7	.0	4.7	7.1	6.2	18.8	2.5	2.2
TOT OBS	416	1020	998	350	30	0	2814		11.8	490	13	509	393	405	16	667	321
TOT PCT	14.8	36.2	35.5	12.4	1.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

						_						
WND DIR	0=6	WIND 7-16	SPEED 17-27		41+	TOTAL OBS	PCT	MEAN SPD	00	HDU1	12 15	18 21
N NE	2.9	2.3	• 7	:1	:0		5.9	8.3	5.3	3.6	6.5	8.1
	.4	.2	.1		.0		.7	8.7	.9	.6	1.0	.7
SE S	8.5	19.2	15.1	2.8	.0		45.7	15.0	3.8	50.5	5.8	5.0
SW	6.0	11.5	4.2	.8			22.6	11.6	29.3	19.3	18.2	24.0
NW	3.4	3.1	.3	:1	.0		7.3	8.4	5.5	5.3	4.1	7.5
CALM	4.3	.0	.0	.0	.0		4.3	.0	3.6	5.8	6.7	2.4
TOT OBS	869	1163	645	134	3	2814		11.8	503	902	421	988
TOT PCT	30.9	41.3	22.9	4.8	.1		100.0		100.0	100.0	100-0	100.0

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			R

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1869-1977

TABLE 4

AREA 0028 VALPARAISO 34.55 73.0W

PERCENTAGE	FREQUENCY	OF	MIND	SPEED	BY	HOUR	(GMT)

HOUR	CALM	1-3	4-10	11-21	SPEED (KNOTS) 34-47	48+	MEAN	PCT	TOTAL
£0300	3.6	8.3	35.6	38.0	12.7	1.8	.0	12.6	100.0	503
90300	5.8	10.3	37.4	32.8	12.7	1.0	.0	11.5	100.0	902
12615	6.7	12.8	33.7	34.4	11.6	.7	.0	11.0	100.0	421
18621	2.4	10.6	36.6	37.0	12.3	.9	.0	12.0	100.0	988
TuT	122	294	1020	998	350	30	0	11.8		2814
PCT	4.3	10.4	35.2	35.5	12.4	1.1	.0		100.0	

	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS BY WIND DIRECTION MEAN ND DIR 0-2 3-4 5-7 8 10TAL CLOUD							•					CEILIN NH <5/						
WND E	IR	0-2	3-4	5-7	8 & n85CD	TOTAL	CLDUD	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/B	
N		. 9	1.1	2.9	4.8		6.4	,3	.0	.0	1.7	3.6	1.4	.3	.0	.0	.0	2.4	
NE	£	.0	.0	.0	.7		8.0	.1	.0	.0	.0	.5	- 1	.0	.0	.0	.0	.0	
E		.4	.0	.0	.7		6.0	.0	.0	.0	.0	.4		.0	.0	.0	.0	. 4	
SE		.0	.1	.0	. 5		7.1	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.1	
S	1	4.0	5.8	10.2	12.2		4.4	.7	.0	2.1	4.3	6.2	4.8	1.7	.0	.3	.0	22.2	
SW		4.2	4.1	7.1	4.7		3.4	.7	.0	.6	. 8	4.6	1.9	. 3	.0	•1	.0	21.1	
W		1.5	2.7	1.2	1.2		4.2	.0	.0	.0	.0	1.6	.3	.3	.0	.0	.0	4.5	
NW		.7	.0	2.5	2.9		6,3	.0	.0	.0	. 2	1.6	1.6	.5	.0	.0	.0	2.3	
VAR		.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM		1.1	.0	1.1	. 7		4.6	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5	
TOT O		88	37	67	76	268	4.5		0	7	19	50	32	. 6	0	1	.0	146	268
TOT P		12.8	13.8	25.0	28.4	100.0		1.9	.0	2,6	7.1	18.7	11.9	3.0	.0		.0	54.5	100.0

TABLE 7

		OF SIMULTANEOUS	
OF CEILIN	S HEIGHT	INH >4/8) AND Y	SBY (NM)

				VSBY (NM)			
CEILING	• OR	. DR	- OR	- OR	• OR	 OR 	- DR	- OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
= DR >6500	.0	.4	.4	.4	.4	.4	.4	.4
■ NR >5000	.0	.4	.4	::	.4	.4	.4	.4
■ OR >3500	2.2	2.9	3.3	3.3	3.3	3.3	3.3	3.3
- DR >2000	9.9	13.9	15.3	15,3	15.3	15.3	15.3	15.3
- OR >1000	24.1	31.8	33.2	33.2	33.6	33.6	33.6	33.6
- OR >600	8.85	38.7	40.1	40.1	40.5	40.5	40.5	40.5
■ OR >300	30.3	41.2	42.7	42.7	43.1	43.1	43.1	43.1
- DR >150	30.3	41.2	42.7	42.7	43.1	43.1	43.1	43.1
- OK > 0	30.7	42.0	43.4	43.4	43.8	44.2	44.5	44.5
TOTAL	84	115	119	119	120	121	122	123

TOTAL NUMBER OF OBSI 274 PCT FREQ NH <5/81 55.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 08SC0 TOTAL 08S 24.7 10.2 6.9 6.6 6.9 5.3 7.9 9.9 20.7 1.0 304

NO	v	=	M	a	£	٥	

PERIODI	(PRIMARY)	1907-1977
	10	

TABLE 8

AREA 0028 VALPARAISO 34.55 73.0W

			ENCENT	PRECI	PITAT	ION WI	TH VAR	YING V	ALUES	F VIS	IBILI	TY	E UF
VSBY		N	NE	E	SE	5	SW	*	NW	VAR	CALM	PCT	TOTAL
(NM)													085
	PCP	.0	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.7	.4	, 3	.0	.0	.0	1.3	
	TOT *	.0	.0	.0	.0	.7	.4	, 3	.0	.0	.0	1.3	
	PCP	. 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT &	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
2<5	NO PCP	. 5	.0	.0	.0	. 5	.0	.0	. 3	.0	.0	1.3	
	TOT %	.5	.0	.0	.0	. 5	.0	.0	. 5	.0	.0	1.6	
	PCP	.0	.5	.0	.0	.0	.0	,0	.3	.0	.0	.8	
<10	NO PCP	2.2	2.4	.0	.1	8.2	5.5	.7	1.1	.0	.3	20.5	
	TOT \$	2.2	3.0	.0	.1	8.2	5.5	.7	1.3	.0	.3	21.3	
	PCP	. 3	. 3	.0	.0	.0	.0	.0	.0	.0	.0	.5	
10+	NO PCP	6.2	1.8	1.1	. 3	29.3	25.1	5,3	3.2	.0	2.7	74.9	
	TOT %	6.5	2.0	1.1	. 3	29.3	25.1	5,3	3.2	.0	2.7	75.5	
	TOT 085												371
	TOT PCT	9.4	5.0	1.1	. 5	38.7	30.9	6,3	5.1	.0	3.0	100.0	

TABLE 9

			,	PERCENT	FREG	DF WI	ND DIR	ECTION S OF V	VS WI	ND SPE	ED		
VSBY (NM)	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.3	.3	.1	.1	.0		.7	
	11-21	.0	.0	.0	.0	.3	.0	. 2	.0	.0		.5	
	22+	.0	.0	.0	.0	. 3	.2	.0	.0	.0		.5	
	TOT \$.0	.0	.0	• 0	1.0	.4	. 3	.1	.0	.0	1.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOY \$.2	.0	•0	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT &	.0	.0	• 0	•0	.2	.2	.0	.0	.0	.0	.3	
	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	
2<5	4-10	.2	.0	.0	.0	.5	. 2	.0	.0	.0		.9	
	11-21	.2	.0	.0	.0	.6	.1	.0	.3	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.5	.0	•0	•0	1.1	.3	.0	.3	.0	.2	2.4	
	0-3	.3	.5	.0	.1	.9	1.0	.2	.3	.0	.7	4.0	
5<10	4-10	.4	1.4	.0	.0	2.2	2.6	.3	.3	.0		7.1	
	11-21	. 9	.0	.0	.0	4.5	3.0	.0	.2	.0		8.5	
	22+	.1	.0	.0	.0	1.2	.2	.0	.3	.0		1.7	
	TOT \$	1.7	1.9	•0	.1	8.8	6.7	.5	1.0	.0	.7	21.4	
	0-3	1.0	.8	.3		1.4	2.6	1.1	. 8	.0	2.6	10.8	
10+	4-10	2.6	.7	.0	.3	6.6	9.0	3.2	1.7	.0		24.0	
	11-21	1.0	.2	.3	.3	15.0	10.0	. 8	.9	.0		28.5	
	224	.0	.0	.0		6.8	3.6	.2	.0	.0		10.6	
	TOT \$	4.7	1.7	• 7	• 7	29.7	25.1	5.3	3.4	.0	2.6	73.9	
	TOT 085								-		-		575
	tut bet	7.1	3.6	.7	. 8	40.8	32.6	6.1	4.9	.0	3.5	100.0	

NOVEMBER

PERIODI	(PRIMARY)	1907-1977
	(DVER-ALL)	1869-1977

TABLE 10

AREA 0028 VALPARAISO 34.55 73.0W

PERCENT	FREQUENCY	OF	CEILING	HEIGHTS	(FEET, NH	>4/8)	AND

HOUR (GMT)	149	150	300 599	999	1000	2000	3500 4999	5000	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
60300	.0	.0	1.2	3.7	17.3	11.1	3.7	.0	1.2	.0	38.3	61.7	81
90300	.0	.0	2.5	10.0	21.3	7.5	1.3	.0	.0	.0	42.5	57.5	80
12615	5.7	.0	2.9	7.1	20.0	15.7	1.4	.0	.0	.0	52.9	47.1	70
18621	1.6	.0	3.3	6.6	8.2	11.5	4.9	.0	.0	.0	36.1	63.9	61
TOT	1.7	.0	2.4	6.8	50 17.1	33	2.7	.0	.3	.0	124	168	292

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(MM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00603	.7	.7	.0	1.4	22.1	75.0	140	00803	.0	2.6	6.4	33,3	60.3	78
90360	1.1	.0	.5	2.7	22.8	72.8	184	06809	.0	2.6	15.8	28,9	55.3	76
12615	4.8	.0	. 8	4.0	19.4	71.0	124	12615	6,2	9.2	18.5	38,5	43.1	65
18621	.7	.0	.0	1.5	20.1	77.6	134	18621	1.8	5.5	14.5	25,5	60.0	55
TOT PCT	10	.2	.3	14	124	431 74.1	582 100.0	TOT	1.8	13	37 13.5	87 31.8	150 54.7	274

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP
TEMP F G-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ
70/74 .0 .0 .0 .2 .0 .7 .0 .7 .5 8 1.8
60/64 .0 .0 .0 .2 2.5 8.8 7.2 2.7 95 21.4
55/59 .0 .0 .0 .2 2.5 8.8 7.2 2.7 95 21.4
55/59 .0 .0 .0 .0 .2 2.7 9.9 6.1 87 19.6
TOTAL 0 0 0 3 31 102 223 84 443 100.0
PCT .0 .0 .0 .7 7.0 23.0 50.3 19.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N NE E SE S SM W NW VAR CALM

.0 .0 .0 .0 .0 .2 .2 .2 .1 .0 .0

4.2 1.0 .2 .0 6.4 6.4 1.9 1.7 .0 .2

3.7 2.0 .7 1.0 24.3 18.0 2.1 1.6 .0 3.4

0 3.6 .2 .7 7.7 5.2 1.2 .5 .0 .5

8.3 7.1 1.1 1.6 38.6 30.0 5.2 4.0 .0 4.1

TARLE 15

#EANS,EXTREMES AND PRECENTILES OF TEMP (DEG F) BY HOUR
HOUR MAX 99% 95% 50% 5% 1% MIN MEAN TOTAL

TABLE 16

HQUR (GMT)
0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL 085 00609 .0 .9 4.3 24.3 55.7 14.8 83 115 06000 .0 .0 2.4 15.9 60.3 21.4 85 126 12615 .0 .0 9.1 20.0 44.5 26.4 83 110 18621 .0 2.0 13.1 34.3 38.4 12.1 80 99 TOT 0 3 31 104 227 85 83 450

NOVEMBER

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1869-1977

TABLE 17

AREA CO28 VALPARAISO 34.55 73.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

				Mark Committee					
AIR-SEA	49	53	57	61	65	69	TOT	W	WD
THP DIF	52	56	60	64	68	72		FOG	FOG
11/13	.0	.0	.0	.6	.0	.0	2 6 8 10	.0	.6
9/10	.0	.0	.0	1.2	. 3	.3	6	.0	1.8
7/8	.0	.0	.6	1.2	.6	.0	8	.0	2.4
6	.0	.3	.6	1.5	.6	.0	10	.0	3.0
5	.0	1.2	2.1	1.5	.0	.0	14	.0	4.3
4	.0	1.2	1.2	1.5	.0	.0	13	.0	4.0
3	.0	.,	2.1	1.2	.0	.0	14	.3	4.0
2	.0	4.3	3.3	2.4	.0	. 3	34	.3	10.0
3 2 1 0	.0	7.0	6.1	1.5	.0	.0	48	.0	14.6
Ö	.3	7.3	7.9	1.5	.0	.0	56	.9	16.1
-1	1.5	7.6	6.1	1.2	.0	.0	54	.0	16.4
-1	1.5	7.0		1.2	.0	.0		.0	10.4
-6	. 3	5.5	4.6	. 3	.0	.0	35	.3	10.3
-3	.0	3.0	. 9	.0	.0	.0	13	. 6	3.3
-4	.3	2.1	.6	. 3	.0	.0	11	.0	3.3
-5	.0	. 9	.6	.0	. 3	.0	6	.3	1.5
-6	.3	.0	.9	.0	.0	.0	4	.0	1.2
-7/-8	.3	.0	.0	.0	.0	.0	1	.0	. 3
TOTAL	10	•	124		6			.0	320
		134		53		2	329		
PCT	3.0	40.7	37.7	16.1	1.8	2	100.0	2.7	97.3

PERIOD: (DVER-ALL) 1963-1977

TARIE 18

				PC	T FREQ D	F WIND	SPEED	(KTS) AN	D DIREC	TION V	ERSUS S	EA HETO	HTS (FT	,		
				N								NE				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-2	1.1	2.0	2.2	.0	.0	.0	5,3		.0	.7	.0	.0	. 0	.0	.7	
3-4	.0	1.1	1.1	.0	.0	.0	2.3		.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	1.6	.0	.0	.0	1.6		.0	.0	.1	.0	. 0	.0	.1	
7	.0	.6	.6	.0	.0	.0	1.1		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	•0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	- 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	3.7	5.5	•0	.0	.0	10,3		.0	.7	.1	.0	.0	.0	. 9	
				E								SE				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.6	.0	.0	.0	. 6		.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0		.1	.0	.0	.0	:0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.1	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0000	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.6	.0	.0	.0	.6		.1	.0	.3	.1	.0	.0	.6	

000100									NOVE	MBER							
PERIOD	LUVE	K-ALL)	1963-	1977										AREA	0028	VALPAR	
								TABLE	18	(CUNT)					34	.55 7	3.0W
					T FREQ D						****** U	-00.00					
				PC	I PREG U	P WIND	SPEED	(K12)	ANU	DIKEC	I IUN V	FK202 2	EA HEIG	HIS (FI			
				5									SW				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.6	.0	.0	.0	.0				. 7	. 6	.0	.0	. 0	.0	1.3	
1-2	.6	3.0	2.3	.0	.0	.0	5.9			.6	3.3	3.4	.0	.0	.0	7.8	
3-4	.4	4.5	8.8	.0	.0	.0	13,6			.0	1.9	6.8	.6	.0	.0	9.2	
5-6	.6	.6	8.6	2.0	.0	.0	11.8			.0	1.7	3,3	.1	.0	.0	5.2	
7	.0	.0	3.4	2.2	.0	.0	5.6			.0	.0	2.7	1.9	.0	.0	4.6	
8-9	.0	.0	1.1	4.3	.0	.0	5,5			.0	.0	.0	.3	.0	.0	.3	
10-11	.0	.0	.4	.9	.0	.0	1,3			.0	.0	.1	.3	.0	.0	. 4	
12	.0	.0	.0	.0	.6	.0	. 6			.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.6	.0	.0	1.6			.0	.0	.0	.1	.0	.0	. 1	
17-19	.0	.0	.0		.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.6	.0	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	0	.0	.0	.0			.0	.0	.0	.0	.0	.0	. 0	
TOT PCT	1.0	8.6	24.7	10.9	.6	.0	46.4			1.3	7.5	16.8	3.9	.0	.0	29.5	
HGT	1-3	4-10	11-21	¥ 22-33	34-47					1=3	4-10		NW				TOTAL
<1						48+	PCT					11-21	22-33	34-47	48+	PCT	PCT
1-2	:0	1.7	1.9	.0	.0	•0	3,6			.6	.6	.7	.0	:0	.0	1.1	
3-4	.0	.6	1.4	.0	.0	.0	1.0			.0	.6	: 7	.0	:0	.0	. 9	
5-6	. 4	.4	.0	.0	.0	.0	.,9			.1	:1	:6	.0	.0	.0	1.3	
7	.0	.0	.0	.0	.0	.0	, o			.0	.0	.0	.0	:0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	:0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.6	.0	.0	.6	
12	.0	.0	. 0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	,0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
67+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	2.7	2.3	.0	.0	.0	5,9			.7	1.4	1.4	.6	,0	.0	4.2	98.3
							-										

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.4	1.7	.0	.0	.0	.0	5.2	003
1-2	2.3	10.9	11.5	.0	.0	.0	24.7	
3-4	.6	8.6	17.8	.6	.0	.0	27.6	
5-6	1.1	2.9	13.8	2.3	.0	.0	20.1	
7	.0	. 6	6.9	4.0		.0	11.5	
8-9	.0	.0	1.1	4.6		.0	5.7	
10-11	.0	.0	.6	1.7	.0	.0	2.3	
12	.0	.0	.0	.0		.0	.6	
13-16	.0	.0	.0	1.7		.0	1.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.6	.0	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.c	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0		.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0		.0	.0	
	-			• •			• • •	174
TOT PCT	7.5	24.7	51.7	15.3	.6	.0	100.0	

PERIO	: (04	ER-ALL	195	0-1977	,				TABLE	19											
					PERCENT	FRE	QUENCY	DF WA	VE HEI	GHT (F	T) VS	WAVE P	ERIOD	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13=16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.5	5.5	9.2	3.7	1.5	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	4
6-7	.0	.4	7.0	10.3	6.3	3.7	1.8	1.8		.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	87	6
8-9	.0	.7	1.1	5.2	8.9	5.5		1.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	7
10-11	.0	.7	1.1	.7	2.2	2.2	1.8	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	7
12-13	.0	.0	.4	.0	.4	.4	.4	.0			.0	.0			.0	.0	.0	.0	.0	- 4	7
>13	.0	.0	.0	.4	.0	.0		.0			.4	.0			.0	.0	.0	.0	.0	2	13
INDET	.4	1.5	1.8	1.8	.7	.7	.7	.0	.0			.0	.0	.0	.0	.0	.0		.0	22	. 5
TOTAL	5	24	56	60	54	34	21	8	6	0	3	ā	0	0	. 0	0	0	0	0	271	6
PCT	1.8	8.9	20.7	22.1	19.9	12.5	7.7	3.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1868-1977

TABLE 1

AREA 0028 VALPARAISO 34.55 72.8W

PERCENT	FREQUENCY	DE	WEATHER	DCCURRENCE	WIND	DIRECTION

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOR	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
N NE	4.0	3.1	5.2	:0	.0	.0	.0	10.3	8.0	2.3	:0	1.7	2.3	:0	75.3
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	92.3
SE	.0	.0	.0	.0	.0		.0	.0	.0	6.8	.0	•0	.0	.0	93.2
SW	.0	.0	.4	.0	.0	.0	.0	1.2	1.3	2.2	1.6	•0	3.2	.0	92.2
W	.6	.0	.0	.0	.0	.0	.0		.0	:0	:6	.0	2.6	.0	100.0
NW	3.4	.0	.0	.0	.0	.0	.0	3.4	.,	.0	3.4	.,	.0	.0	91.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	11.6	7.0	.0	.0	.0	79.1
TOT PCT	596	.2	.8	.0	.0	•0	.2	1.8	1.2	2.3	1.5	.2	2.2	.0	90.8

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

							-			-	-							
PRECIPITATION TYPE								OTHER WEATHER PHENOMENA										
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA			
00603 06609 12615 18621	.7 .6 1.4	.0 .0 .0	.7 .0 2.0 .7	.0	.0	•0	.0	1.4 .6 4.1 1.4	.0 .6 3.4 .7	6.7	1.2 2.0 2.7	.0 .7 .0	2.1 1.8 1.4 3.4	.0	95.1 89.1 87.8 91.9			
TOT PCT	.7	.2	.8	.0	.0	.0	.2	1.8	1.2	2.3	1.5	•2	2.2	.0	90.9			

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

DIR	0-3					48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21
E	1.0	3.4	1.2	.2	•0	.0		5.8	7.9	6.0	4.7	4.7	4.8		23.8	6.5	5.4
	.5	.6	.1	.0	.0	.0		1.2	4.5	.6	.0	.4	1.2	2.4	.0	1.3	1.1
E	.5	1.8	2.1	1.1	.1	.0		5.5	13.8	4.1	3.1	4.0	7.4	6.8	5.0	5.7	5.3
	2.4	15.9	19.3	5.4	.4	.0		43.4	13.2	39.8	40.6	48.2	50,6	46.5	35.0	38.2	39.9
W	2.3	10.7	9.4	2.2		.0		24.7	11.4	31.1	37.5	24.6	18,1	18.9	20.0	24.9	31.2
	1.2	3.9	.9	.1	.0	.0		6.1	7.1	6.7	.0	4.5	5.4	2.8	.0	9.4	6.3
	1.0	3.4	1.2	.1	.0	.0		5.6	7.8	5.2	6.3	4.2	5.0	4.2	6.3	7.9	5.9
R	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
M	6.2							6.2	.0	5,2	.0	8.2	5,7	9.8	.0	4.5	4.2
	455	1196	1007	268	16	0	2942		10.8	481	16	511	421	450	20	711	332
PCT	15.5	40.7	34.2	9.1	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	E W W R	E 1.0 .5 E .5 E .5 W 2.3 1.2 W 1.0 M 6.2 OBS 455	DIR 0-3 4-10 E 1.0 3.4 E .5 .9 E .5 1.8 2.4 15.9 M 2.9 10.7 H 1.0 3.4 R .0 .0 M 6.2 DIS 455 1196	DIR 0-3 4-10 11-21 1.0 3.4 1.2 5 .9 .1 5 .6 .1 2.4 15.9 19.3 2.3 10.7 9.4 1.2 3.9 .9 1.0 3.4 1.2 R .0 .0 .0 6.2 0.0 0.0 0.0 0.0 0.0 0.0 0	DIR 0-3 4-10 11-21 22-33 E 1.0 3.4 1.2 .2 E .5 .9 .1 .0 E .5 1.8 2.1 1.1 2.4 15.9 19.3 5.4 M 2.3 10.7 9.4 2.2 M 1.0 3.4 1.2 .1 R .0 0 0 0 0 B 6.2 B 6.2 B 6.2 B 6.2 B 6.2 B 6.2	E 1.0 3.4 1.2 .2 .0 .0 .5 .9 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	DIR 0-3 4-10 11-21 22-33 34-47 48+ E 1.0 3.4 1.2 .2 .0 .0 .0 E .5 .9 .1 .0 .0 .0 E .5 1.8 2.1 1.1 .1 .0 .0 2.4 15.9 19.3 5.4 .4 .0 M 2.3 10.7 9.4 2.2 .0 .0 H 1.0 3.4 1.2 .1 .0 .0 R .0 .0 .0 .0 .0 .0 B 6.2 B 6.2	DIR 0-3 4-10 11-21 22-33 34-47 48- TOTAL OBS 1.0 3.4 1.2 .2 .0 .0 5 .6 .1 .0 .0 .0 E .5 1.8 2.1 1.1 .1 .0 2.4 15.9 19.3 5.4 .4 .0 M 2.3 10.7 9.4 2.2 .0 .0 H 1.0 3.4 1.2 .1 .0 .0 R .0 0 0 .0 .0 .0 B .0 0 0 0 0 0 0 0	DIR 0-3 4-10 11-21 22-33 34-47 48- TOTAL PCT OBS FREQ 1.0 3.4 1.2 .2 .0 .0 .0 5.8 1.6 .5 .6 .1 .0 .0 .0 .0 1.6 .5 .5 .5 .1 .8 .2 .1 .1 .1 .0 .5 .5 .5 .2 .4 15.9 19.3 5.4 .4 .0 .43.4 .0 .43.4 .0 .43.4 .0 .43.4 .0 .43.4 .0 .43.4 .0 .43.4 .0 .43.4 .0 .43.4 .0 .0 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	DIR 0-3 4-10 11-21 22-33 34-47 48+ TDTAL PCT MEAN OBS FREQ SPD E	DIR 0-3 4-10 11-21 22-33 34-47 48+ TOTAL PCT MEAN OO OBS FREQ SPD E 1.0 3.4 1.2 2 0.0 .0 5.8 7.9 6.0 1.6 6.3 1.2 5.5 6.1 0.0 0.0 1.6 6.3 1.2 6.5 6.6 1.0 0.0 0.0 1.2 4.5 6.6 1.2 4.5 1.8 2.1 1.1 1.0 5.5 13.8 4.1 2.4 15.9 19.3 5.4 4.4 .0 43.4 13.2 39.8 4.2 1.2 3.9 0.9 1.0 0.0 6.1 7.1 6.7 1.2 3.9 0.9 1.0 0.0 6.1 7.1 6.7 1.2 3.9 0.9 1.0 0.0 5.6 7.8 5.2 8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	DIR 0-3 4-10 11-21 22-33 34-47 48+ TOTAL PCT MEAN 00 03 1.0 3.4 1.2 .2 .0 .0 .0 5.8 7.9 6.0 4.7 E .5 .9 .1 .0 .0 .0 1.6 6.3 1.2 7.8 E .5 1.8 2.1 1.1 .1 .0 .5 5.5 13.8 4.1 3.1 2.4 15.9 19.3 5.4 4 .0 43.4 13.2 39.8 40.6 M 2.3 10.7 9.4 2.2 .0 .0 .0 42.4 13.2 39.8 40.6 M 2.3 10.7 9.4 2.2 .0 .0 .0 41.7 11.4 31.1 37.5 1.2 3.9 .9 .1 .0 .0 .0 6.1 7.1 6.7 .0 R .0 .0 .0 .0 .0 .0 .0 5.6 7.8 5.2 6.3 R .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	DIR 0-3 4-10 11-21 22-33 34-47 48+ TOTAL PCT MEAN 00 03 06 1.0 3.4 1.2 .2 .0 .0 .0 5.8 7.9 6.0 4.7 4.7 E .5 .9 .1 .0 .0 .0 1.6 6.3 1.2 7.8 1.2 E .5 1.8 2.1 1.1 1 .0 .5 5.5 13.8 4.1 3.1 4.0 E .4 15.9 19.3 5.4 44 .0 43.4 13.2 39.8 40.6 48.2 M 2.3 10.7 9.4 2.2 .0 .0 24.7 11.4 31.1 37.5 24.6 1.2 3.9 .9 .1 .0 .0 .0 6.1 7.1 6.7 .0 4.5 R .0 .0 .0 .0 .0 .0 .0 5.6 7.8 5.2 6.3 4.2 R .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	DIR 0-3 4-10 11-21 22-33 34-47 48+ TOTAL PCT MEAN OO 03 06 09 12 15 18 1.0 3.4 1.2 .2 .0 .0 .5 .8 7.9 6.0 4.7 4.7 4.8 6.2 23.8 6.5 .5 .5 .6 .1 .0 .0 .0 .1.6 6.3 1.2 7.8 1.2 1.8 2.2 10.0 1.5 .5 .5 .6 .1 .0 .0 .0 .0 .1.2 4.5 .6 .0 .4 1.2 2.4 .0 1.3 .5 .5 .1 .8 2.1 1.1 .1 .0 .5 .5 13.8 4.1 3.1 4.0 7.4 6.8 5.0 5.7 2.4 15.9 19.3 5.4 .4 .0 .43.4 13.2 39.8 40.6 48.2 50.6 46.5 35.0 36.2 4.1 1.2 3.9 .9 .1 .0 .0 .0 .4 .1 1.4 31.1 37.5 24.0 18.1 18.9 20.0 24.9 11.2 3.9 .9 .1 .0 .0 .0 .0 .1 1.4 31.1 37.5 24.0 18.1 18.9 20.0 24.9 11.2 3.9 .9 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0			

A	8	L	E	3	A

WNO DIR	0-6	WIND 7-16	SPEED 17-27	(KNDTS)	41+	TOTAL	PCT	MEAN SPD	00		12 15	18 21
N NE	2.9	2.4	:1	.0	:0		5.8	7.9	6.0		7.0	6.1
	1.0	• •			.0		1.2	4.5	1.6	1.5	2.6	1.3
g SE	1.2	2.1	1,8	.0			5,5	13.8	4.0		6.8	5.6
5	8.8	20.5	12.1	2.0			43.4	13.2	39.8		46.0	38.8
SW	6.3	13.0	4,8		.0		24.7	11.4	31.3		19.0	26.9
W	3.3	2.5	.3	.0	.0		6.1	7.1	6.5	4.9	2.7	8.4
NW	2.7	2.6	,3	.0	.0		5.6	7.8	5.3	4.6	4.3	7.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0
CALM	6.2						6.2	.0	5.0		9.4	4.4
TOT DBS	985	1285	584	86	2	2942		10.8	497	932	470	1043
TOT PCT	33.5	43.7	19.9	2.0	. 1		100-0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1908-1977 (OVER-ALL) 1868-1977

TABLE 4

AREA 0028 VALPARAISO 34,35 72.8W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND	SPEED (48+	MEAN	PCT	TOTAL
HUOK	CALM	1-3	4-10	11451	55-30	34-41	40+	HEAR	FKER	002
60300	5.0	6.8	42.9	34.0	10.5	.8	.0	11.3	100.0	497
06409	7.1	10.4	41.8	31.8	8.5	.4	.0		100.0	932
12615	9.4	11.1	35.5	34.7	8.9	.4	.0	10.4	100.0	470
18621	4.4	8.7	40.8	36.3	9.1	.6	.0	11.1	100.0	1043
TOT	181	274	1196	1007	268	16	0	10.8		2942
DOT	4 2	0 1	40 -	24 4	. 1		0		100 0	

TARLE 5

TABLE 6

PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTHS) PERCENTAGE FREQUENCY OF CEILING HEIGHTS (F	FT,NH >4/8) IRECTION
BY WIND DIRECTION AND DECURRENCE OF NH 45/8 BY WIND DE	
MEAN HEAN COLUMN TO THE TOTAL CLUUD OOD 150 300 600 1000 2000 3500 5000 6500 1000 2000 3500 5000 6500 1000 2000 3500 5000 6500 1000 2000 3500 5000 6500 1000 2000 3500 5000 6500 1000 2000 3500 5000 6500 1000 2000 3500 5000 6500 1000 2000 3500 600 1000 2000 3500 6500 1000 2000 3500 600 1000 2000 3500 6500 1000 2000 3500 600 1000 2000 3500 6500 1000 2000 3500 600 1000 2000 3500 6500 1000 2000 3500 600 7000 600 7000	8000+ NH <5/8 TOTAL ANY HGT DBS
NE .2 1.0 1.4 4.5 6.7 .4 .2 .9 .4 1.7 1.2 .7 .0 .0 NE .0 .8 .6 1.5 6.3 .1 .1 .1 .0 .8 .5 .5 .0 .0	.0 1.7
NE .0 .8 .6 1.5 6.3 .1 .1 .0 .8 .5 .5 .0 .0	.0 .9
E .0 .0 .5 .7 7.2 .0 .0 .0 .2 .2 .0 .0 .5	.0 .2
SE .6 .1 .2 .2 3.0 .0 .0 .0 .4 .1 .1 .0 .0	.0 .7
5 24,3 4.2 7.7 7.2 3.0 .2 .4 .5 3.2 4.5 1.8 .6 .0 .2	.2 31.9
SW 16,2 3.1 4.9 6.1 3.2 ,1 .1 ,2 2.7 3,4 1,5 ,9 .0 .1	.0 21.3
W .9 .7 2.1 1.2 5.1 .0 .0 .0 .0 .9 .9 .2 .0 .2	.2 2.5
NW 1.0 .6 1.0 2.0 5.5 .0 .0 .6 1.5 .6 .0 .0 .0	.0 2.1
VAR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .0
CALM 1,7 .7 .7 1,0 3,8 .5 .0 .2 .0 .7 .0 .0 .0 .0	.0 2.7
TOT OBS 183 46 78 100 407 3.7 5 3 8 28 57 28 12 0 4	2 260 407
TOT PCT 45.0 11.3 19.2 24.6 100.0 1.2 .7 2.0 6.9 14.0 6.9 2.9 .0 1.0	

TABLE 7

		ULATIVE						
	·	F CEILIN	G MEIGHT	(NH)4/	OI AND Y	SOT (NM	,	
				VSBY (NM)			
CEILING	• DR	- DR	• OR	- OR	- OR	- CR	- OR	- DR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
TR >6500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DR >5000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DR >3500	3.4	4.1	4.4	4.4	4.4	4.4	4.4	4.4
TH >2000	8.3	10.7	11.2	11.2	11.2	11.2	11.2	11.2
DK >1000	15.1	24.1	25.3	25.5	25.8	25.8	25.8	25.8
DR >600	18.0	30.2	32.1	32.4	32.6	32.6	32.6	32.6
OR >300	18.5	32.1	34.1	34.3	34.5	34.5	34.5	34.5
DR >150	19.0	32.8	34.8	35.0	35.3	35.3	35,3	35.3
DR > 0	19.2	33.1	35.3	35.8	36.0	36.0	36.3	36.3
TOTAL	79	136	145	147	148	148	149	149

TOTAL NUMBER OF DBS1 411 PCT FREQ NH 45/81 63.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD DBS

D				

							DEC	EMBER							
PERIOD: (PRIMARY) (OVER-ALL)	1908-1977 1868-1977						TA	BLE 8				ARE	4 0028	VALP.	72.8k
		P	ERCENT	PREC	OF WIN	D DIRE	CTION TH VAR	A INC A	URRENCE ALUES O	F VIS	IBILIT	URRENC	E OF		
VSBY (NM)		N	NE	E	SE	s	SH	W	NW	VAR	CALM	PCT	TOTAL		
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5			
<1/2	NO PCP	.0	.0	.0	.0	.3	:	0	.0	.0	.2	.5			
	TOT \$.0	• 0	•0	.0	.3	•	,0	.0	.0	.2	.5			
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
1/2 </td <td>NO PCP</td> <td>.0</td> <td>.0</td> <td>.0</td> <td>.0</td> <td>.0</td> <td>.0</td> <td>.0</td> <td>.0</td> <td>.0</td> <td>. 2</td> <td>. 2</td> <td></td> <td></td> <td></td>	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 2	. 2			
	TOT &	.0 .ò	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2			
	PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2			
1<2	NO PCP	.0	.0	.0	.0	.2	.0	:0	.0	.0	.2	.3			
	TOT %	.0	.0	.0	.0	.2	.2	.0	.0	.0	.2	.3			
	PCP	:1		.0	.0	.0	.0	.5	.0	.0	.0	.2			
2<5	NO PCP	.1		.0	.2	.6	.7	.5		.0	.0	2.2			
	TOT %	.3	.1	.0	.2	.6	.7	.5	•	.0	.0	2.4			
	PCP	.6	.2	.0	.0	.2	.0	.0	.2	.0	.0	1.2			
5<10	NO PCP	2.9	.9	1.2	1,3	7.8	6.7	2.1	2.6	.0	2.5	28.1			
	TOT %	3.6	1.1	1.2	1.3	8.0	6.7	2.1	2.8	.0	2.5	29.3			
	PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.3			
10+	NO PCP	3.5	1.5	1.0	1.0	29.8	20.9	3.0	2.1	.0	4.0	66.8			
	TOT %	3.5	1.5	1.0	1.0	29.8	21.0	3.0	2.1	.0	4.2	67.2			

TOT 085 TOT PCT 7.3 2.7 2.2 2.5 38.8 28.7 5.6 4.9 .0 7.2 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED

					WITH V	ARYING	VALUE	S OF V	ISIBIL	ITY				
VSBY (NM)	SPU KTS	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1		
<1/2	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0		.2		
	11-21	.0	.0	.0	.0	.2	.2	.0	.0	.0		.4		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT \$.0	.0	.0	.0	.3	.3	.0	.0	.0	.1	.7		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2		
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	224	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT %	.0	.0	•0	.0	.0	.0	.0	.0	.0	.2	.2		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1		
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0		.2		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT *	.0	•0	•0	.0	.1	.1	.0	.0	.0	.1	.4		
	0-3	.0	.0	.0	.0	.0	.0	.1		.0	.1	.2		
2<5	4-10	.1		.0	.0	.5	.5	.1	.0	.0		1.2		
	11-21	.2		.0	.1	.1	.2	.1	.2	.0		1.1		
	22+	.0	.0	.0	.0	.1	.2	.0	.0	.0		.2		
	TOT \$.3	•1	•0	•1	.7	.9	.3	.3	.0	.1	2.8		
	0-3	.2	.2	.4	.0		.1	.2	.4	.0	2.2	4.0		
5<10	4-10	2.2	.5	.4	. 9	3.2	2.6	1.3	1.5	.0		12.7		
	11-21	. 9		.0	.1	4.3	4.4	.2	. 3	.0		10.2		
	22+	.0	.0	.0	.0	8.7	7:7	1.7	.1	:0		1.7		
	TOT #	3.3	. 6	.8	1.0	8.7	7.7	1.7	2.3	.0	2.2	28.5		
	0-3	.5	.4	• 1	.1	1.4	1.0	.4	.3	.0	3.5	7.7		
10+	4-10	1.5		.6	.3	9.4	8.1	2.4	1.3	.0		24.4		
	11-21	.9	.2	.0	.2	14.9	9.3	.3	.4	.0		20.2		
	22+	.1	.0	.0	.2	5.2	3.5	.0	.0	.0		8.9		
	TOT \$	3.1	1.4	.7	.8	30.9	21.8	3.2	1.9	.0	3.5	67.4		
	nT 085	_	Ta 1942				-						827	
7	TOT PET	6.7	2.3	1.6	2.0	40.7	30.9	5.2	4.5	-0	6.3	100.0		

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DECEMBER

PERIODI	(PRIMARY)	1908-1977
	(DVER-ALL)	

TABLE 10

AREA 0028 VALPARAISO 34.55 72.8W

PERCENT	FREQUENCY	OF	CEIL	ING	HEIGHTS	I FEET, NH	>4/8)	AND
	DECLIB	REN	CE C	TE NE	I CSIH BY	HOUR		

000	150 299	300 599	600 999	1999	2000 3499	3500 4999	5000	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
.0	2.8	.9	6.5	12.1	8.4	2.8	.0	.0	.9	34.6	65.4	107
.9	.0	1.7	4.3	17.4	6.1	6.1	.0	1.7	.0	38.3	61.7	115
1.9	.0	3.8	9.4	15.1	6.6	1.9	.0	.9	.0	39.6	60.4	106
2.1	.0	1.0	6.3	11.5	5.2	.0	.0	1.0	1.0	28.1	71.9	96
1.2	.7	1.9	6.6	14.2	28 6.6	2.8	.0	.9	.5	150 35.4	274 64.6	100.0
	.0	.0 2.8 .9 .0 1.9 .0	149 299 599 .0 2.8 .9 .9 .0 1.7 1.9 .0 3.8 2.1 .0 1.0	149 299 599 999 .0 2.8 .9 6.5 .9 .0 1.7 4.3 1.9 .0 3.8 9.4 2.1 .0 1.0 6.3	.0 2.8 .9 6.5 12.1 .9 .0 1.7 4.3 17.4 1.9 .0 3.8 9.4 15.1 2.1 .0 1.0 6.3 11.5	.0 2.8 .9 6.5 12.1 8.4 .9 .0 1.7 4.3 17.4 6.1 1.9 .0 3.8 9.4 15.1 6.6 2.1 .0 1.0 6.3 11.5 5.2	149 299 599 699 1696 3496 4699 .0 2.8 .9 6.5 12.1 8.4 2.8 .9 .0 1.7 4.3 17.4 6.1 6.1 1.9 .0 3.8 9.4 15.1 6.6 1.9 2.1 .0 1.0 6.3 11.5 5.2 .0	149 299 599 999 1996 3496 4999 6499 .0 2.8 .9 6.5 12.1 8.4 2.8 .0 .9 .0 1.7 4.3 17.4 6.1 6.1 .0 1.9 .0 3.8 9.4 15.1 6.6 1.9 .0 2.1 .0 1.0 6.3 11.5 5.2 .0 .0	149 299 599 999 1996 3496 4999 4499 7996 .0 2.8 .9 6.5 12.1 8.4 2.8 .0 .0 .9 .0 1.7 4.3 17.4 6.1 6.1 .0 1.7 1.9 .0 3.8 9.4 15.1 6.6 1.9 .0 .9 2.1 .0 1.0 6.3 11.5 5.2 .0 .0 1.0	149 299 599 699 1696 3296 4699 6469 7696 .0 2.8 .9 6.5 12.1 8.4 2.8 .0 .0 .9 .9 .0 1.7 4.3 17.4 6.1 6.1 .0 1.7 .0 1.9 .0 3.8 9.4 15.1 6.6 1.9 .0 .9 .0 2.1 .0 1.0 6.3 11.5 5.2 .0 .0 1.0 1.0	149 299 599 999 1999 3499 4999 6499 7899 .0 2.8 .9 6.5 12.1 8.4 2.8 .0 .0 .9 34.6 .9 .0 1.7 4.3 17.4 6.1 6.1 .0 1.7 ,0 38.3 1.9 .0 3.8 9.4 15.1 6.6 1.9 .0 .9 .0 39.6 2.1 .0 1.0 6.3 11.5 5.2 .0 .0 1.0 1.0 28.1	149 299 599 999 1996 3496 4999 6499 7699 ANY HGT .0 2.8 .9 6.5 12.1 8.4 2.8 .0 .0 .9 34.6 65.4 .9 .0 1.7 4.3 17.4 6.1 6.1 .0 1.7 .0 38.3 61.7 1.9 .0 3.8 9.4 15.1 6.6 1.9 .0 .9 .0 39.6 60.4 2.1 .0 1.0 6.3 11.5 5.2 .0 .0 1.0 1.0 28.1 71.9

TABLE 11

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT	CEILIN	FREQ G HGT	OF RAN	GES DF	VSBY (NM)	AND/OR
(GMT)	<1/2	1/5<7	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 €1	<1000 45	1000+ AND5+	NH <5/8	TOTAL DBS
00603	.0	.0	.0	1.1	26.2	72.7	183	00803	.0	3.8	11.5	25.0	63.5	104
90360	.8	.4	.4	3.4	30.7	64.4	264	06809	.9	3.5	10.6	28,3	61.1	113
12615	1.1	.6	1.1	2.8	26.5	68.0	181	12615	1.0	5.9	17.6	23,5	58.8	102
19621	1.0	.0	.0	3.4	30.4	65.2	207	18821	2.2	3.3	13.0	18,5	68.5	92
FOT	.7	.2	.4	23	240	561	835	TOT	1.0	17	54	99	258	411

TABLE 13

					MOLE A	•				
	PERC	ENT FR	EQUENC	Y UF R	ELATIV	E HUMI	DITY B	Y TEMP	TOTAL	PCT
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ
70/74	.0	.0	.0	.3	1.2	.0	.9	. 3	16	2.8
65/69	.0	.0	.0	.0	2.3	4.7	2,6	1.0	61	10.6
60/64	.0	.0	.0	.0	2.9	14.9	19.8	6,8	256	44.4
55/59	.0	.0	.0	.0	1.2	8.1	18.5	9.7	217	37.6
50/54	.0	.0	.0	.0	.0	.2	1.7	2.0	26	4.5
45/49	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	0	0	2	44	161	252	118	577	100.0
PCT	.0	.0	•0	.3	7.6	27.9	43.7	20.5	-	•

TABLE 1

					-					
	PERC	ENT FR	EQUENC	Y OF 1	IND DI	RECTIO	N BY T	EMP		
N	NE	E	SE	s	SW	W	NW	VAR	CALM	
.3 1.4 3.3	:2	.4		2.2	2,8	.3	.2	.0	.2	
1.4		.4	.6	2.2	2.8	1.3	. 8	.0	.7	
3.3	1.5	1.3	1.0	15.3	12.7	4.0	2.8	.0	2.6	
1.6	.9	. 8	1.1	17.1	9.8	.7	1.4	.0	4.2	
:1	.0	. 2	.3	2.1	1.6	.0		.0	.2	
.1	•	.0	.0	.0	.0	.0	.0	.0	.0	
6.9	2.9	3.1	3.1	37.5	27.2	6.4	5.2			

TAPLE 15

	MEANS,	EXTREMES	AND	PERCEN	TILES	OF TEM	(DEG	F) (Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	15	MIN	MEAN	TOTAL
60300	69	67	65	60	55	53	46	60.0	484
90300	69	65	63	58	54	52	50	57.9	921
12815	72	68	65	59	55	53	51	59.6	448
18821	79	72	69	62	57	54	52	62.5	914
	70	70							

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00603	.0	.0	4.5	29.3	48.1	18.0	83	133
06609	.0	.0	1.2	17.8	50.3	30.7	86	163
12815	.0	.0	5.8	28.8	44.6	20.9	83	139
18821	.0	1.3	18.8	36.9	30.9	12.1	78	149
TOT	0	2	44	163	254	121	83	584

DECEMBER

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1868-1977

TABLE 17

AREA 0028 VALPARAISO 34,55 72.6W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

		-JCA	CH. C				1000			
AIR-SEA	49 52	53 56	57	61	65	69	73 76	TOT	FOG	FOG
		-								
14/16	.0	.0	.0	.0	1.0	.6	.0	6 12	:0	1.2 1.9 3.3 2.7 5.2
11/13	.0	.0	.0	.2	. 6	.2	.2	6	.0	1.2
9/10	.0	.0	.0	1.0	. 8	.6	.0	12	.4	1.9
7/8	.0	.0	.4	1.0	1.0	1.0	.0	17	.0	3.3
6	.0	.0	.2	1.3		.4	.0	14	.0	2.7
5	.0	.0	1.5	1.0	1.3	.0	.0	27	.0	5.2
4	.0	.4	1.2	2.7	1.5	.2	.2	32	.0	6,2
3	.000000	1.3	2.3	3.5	. 6	.0	.0	33	.0	6.2
2	.0	1.3	5.2	6.9	1.0	.0	,Q	75	.0	12.5
0	.0	1.7	4.4	6.0	1.5	.0	.0	66	.2	12.5
O	.0	1.2	7.9	5.6	1.5	.0	.0	84	,2	10.0
-1	.0	1.7	7.1	2.3	.4	.0	.0	60	.4	11.2
-2	.0	1.3	4.4	1.3	.0	.0	.0	37	.0	7.1
-1 -2 -3	.0	1.0	3.1	1.3	.0	.0	.0	28	.0	5.4
-5	.2	.2	1.7	.0	.0000	.0	.0	11	.0	11.2 7.1 5.4 1.9
-5	.0	1.0	.0	.6	.0	.0	.0		.2	1.3
-6	.0	1.0	.2	.0	.0	.0	.0	6	.0	1.2
-7/-8	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
-9/-10	.0	.0	.0	.2	.0	.0	.0	1	.0	.2 512
JATOT	1		206		52	-	2			512
	-	10.8		189		2.7		520		
PCT	.2	10.8	39.6	36.3	10.0	2.7	.4	100.0	1.5	98.5

PERIOD: (DVER-ALL) 1963-1977

TABLE 18

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT	•	
V/				N								22-33 NE	_		
HGT	1-3	4-10	11-51	22-33	34-47	48+	739		1-3	4-10	11-21		34-47	48+	PCT
<1	.6	2.2	.0	.0	.0	.0	2.8		1.0	.9	.0	.0	.0	.0	1.9
1-2	.0	1.1	.8	.0	.0	.0	1.9		.0	. 8	.0	.0	000000000000000000000000000000000000000	.0	. 8
3-4	.0	.4	1.1	.4	.0	.0	1,9		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.9	.0	.0	.0	.0		.0	.0	.2	.0	.0	.0	. 2
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	00000000		.0	.0	.0	.0	.0	.0	.00000000000000000000000000000000000000
13-10	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19 20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
50-55	.0	.0	.0	0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	.0	.0	.0	.0	.0	7.8		.0	1.7	.0	.0	.0	.0	3.0
TOT PCT	.6	3.7	3,1	.4	.0	•0	7,8		1.0	1.7	.3	.0	.0	.0	3.0
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.2	.0	.0	.0	.0	. 2
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	. 4		.0	.0	. 8
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.02080000000000000000000000000000000000
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	-0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	- 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25 26-32	.0	.0	. 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		:0	.0	.0	.0	.0	.0	.0
39-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	• • • • • • • • • • • • • • • • • • • •		.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.0	.0	.0	.0			.0	.2		.4	000000000000000000000000000000000000000	.0	1.0

PAGE 308

			_						DECEMB	ER							
PERIOD:	(OVE	R-ALL)	1963-	1977				748: F	18 (0	ONT				AREA	34.	VALPARA	
								-									
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND D	IRECT	ION	VERSUS	SEA HEIG	HTS (FT)			
HGT	1-3	4-10		5 22-33	34-47	48+	PCT			-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	1.1	11-21	.0	.0	.0	1.4			.2	.9			.0	.0	1.1	
1-2	.4	5.1	2.0	.0	.0	.0	7.5			.0	4.3	4.8		:0	.0	9.1	
3-4	.0	1.9	12.4	.0	.0	.0	14.3			.4	3.3				.0	10.1	
5-6	.0	1.1	7.8	2.3	.0	.0	11.2			.0	.1			.0	.0	5,6	
7	.0	.3	2.4	2.6	.0	.0	5,3			.0	.1			.0	.0	1.9	
8-9	.0	.3	.0	2.7	.0	.0	3.0			.0	.1			.0	.0	.6	
10-11	.0	.0	.4	1.6	.0	.0	2.0			.0	.0			.0	.0	.0	
12	.0	.0	.0	.3	.0	.0	. 3			.0	.0			000000000000000000000000000000000000000	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
17-19	.0	.0	.0		.0	.0	.0			.0	.0	.0		.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
TOT PCT	.7	9.8	25.0	9.5	.0	.0	45.0			.6	8.8	15.0	4.1	.0	•0	28.5	
													NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1.	-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.7	1.1	.0	.0	.0	.0	1.8		1	.2	1.4		.0	.0	.0	2.6	
1-2	.0	1.6	.4	.0	.0	.0	2.0			.4	. 9			.0	.0	1.7	
3-4	.4	1.1	1.1	.0	.0	.0	2,6			.0	. 1			0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0	.1		.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.4		.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0			0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			•0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	•0	.0	.0	.0			.0	.0			.0	.0	.0	
41-48	.0	.0	.0		.0	.0	.0			• 0	.0			.0	.0	.0	
	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			•0	.0			.0	.0	.0	
71-86 87+	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
TOT PCT	.0	3.8	1.5	.0	.0	.0	6.4			.0	2.4	0		.0	.0	0	97.2
TOT PCT	1.1	3,0	1.5	.0	.0	.0	0,•		1.	••	4	1.1	.0	.0	.0	e 5.1	41.2

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.8	8.0	.0	.0	.0	.0	14.8	003
1-2	. 8	14.0	8.4	.0		.0	23.2	
3-4	. 8	6,8	21.2	.4	.0	.0	29.2	
5-6	.0	1,2	12.0	5.6	.0	.0	18.6	
7	.0		4.0	3,2	.0	.0	7.6	
8-9	.0	. 4	.4	3,2	.0	.0	4.0	
10-11	.0		:4	1.6		.0	2.0	
					.0			
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70					.0	.0		
	.0	.0	.0	.0			.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								250
TOT PCT	8.4	30.8	46.4	14.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1950-1977 TABLE 19 PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS) 8-9 10-11 1.9 .3 5.5 2.5 2.5 4.4 1.1 .0 .3 .6 .3 .3 .0 .0 42 29 11.6 8.0 <1 1.7 .0 .0 .0 .0 .0 .0 .1.1 10 2.8 87+ TOTAL MEAN
.0 88 4
.0 119 6
.0 77 7
.0 38 5
.0 9 9
.0 9 9
.0 961 6 PERIOD (SEC) <6 6-7 8-9 10-11 12-13 >13 INDET TOTAL PCT 3-4 5-6 8.9 5.0 7.5 8.6 2.5 3.6 1.4 1.1 4.4 .8 .0 .3 .6 .6 91 72 25.2 19.9 49-60 61-70 71-86

.0 .0 .0 .0

.0 .0 .0 .0

.0 .0 .0

.0 .0 .0

.0 .0 .0

.0 .0 .0

.0 .0 .0

.0 .0 .0 7 1.1 6.1 7.8 3.9 .8 .8 .3 75 1-2 5.3 .8 .0 .8 .0 .0 .0 .0 .0 .00.00 2.5 4.4 .0 .6 .3 .0 293 1.1 .0 .0 .3 .6 .0

PERIOD: (PRIMARY) 1905-1978 (OVER-ALL) 1855-1978

2 2

TABLE 1

AREA 0028 VALPARAISO 34.55 73.0W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIREC	TION	N
---	------	---

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG	SNOW	FRZN PCPN	HAZL	PEPN AT	PCPN PAST HOUR	THOR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
N	6.7	1.3	3.7	.0	.0	.0	.0	11.5	4.2	.4	6.5	.7	2.9	.0	73.8
NE	5.9	.9	2.9	.0	.0	.0	.0	9.4	2.8	.0	8.7	.0	3.8	.0	75.4
E	3.0	.0	2.7	.0	.0	.0	.0	5.7	.0	.6	9.4	.0	4.2	.0	80.1
SE	1.0	.0	.9	.0	.0	.0	.0	1.9	.4	1.0	6.1	.9	.9	.0	88.8
S	.2	.2	.7	.0	.0	.0	.0	1.1	.5	. 3	2.9	.2	2.0	.0	93.1
SW	. 4	. 8	. 7	.0	.0		.0	2.0	, 9		5.0	.5	2.2	.0	89.3
W	.8	1.2	.5	.0	.0	.0	.0	2.5	2.8	.3	5.2	.6	2.3	.0	86.4
NW	3.5	1.4	5.3	.0	.0	.0	.0	9.8	3.0	.0	5.6	.4	1.3	.0	79.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5	.0	1.6	.0	.0	.0	.2	2.3	.4	1.6	14.6	.3	3.4	.0	77.5
TOT PCT	2.0	.6	1.5	.0	.0	•0	•	4.1	1.4	.4	5.3	.3	2.3	.0	86.2

TABLE 2

DEDCENE	FREDUENCY	WEATHER	DECURRENCE	 HOLLO

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603 06609 12615 18621	2.1 2.0 2.5 1.5	.6 .5 .6	1.4 2.4 1.3	.0	.0	.0	.0 .0 .1	3.6 3.9 5.3 3.5	1.6 1.9 1.0	1.0	4.7 4.9 7.2 6.0	.3 .1 .7 .2	2.0 1.2 2.9 3.2	.0	88.4 87.2 61.6 86.1
TOT PCT	2.0	.6	1.5	.0	.0	.0		4.1	1.4	.4	5.7	.3	2.3	.0	85.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	D SPE	ED IKN	DTS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	1.7	5.0	3.1	1.2	.3			11.3	10.1	10.9	10.6	10.2	9,6	10,9	12,1	13.5	11.4
NE	.9	1.8	.7	.2	• 1			3.6	7.8	2.8	2.6	3.1	3.3	4.7	9.4	4.1	2,5
E	.6	1.0	.2			.0		1.8	6.2	1.3	1.2	1.4	2.2	2.5	2.9	1.9	1.2
E SE	.9	3.0	2.6	1.1	.1			7.8	12.7	5.6	6.1	7.1	9.9	9.7	4.5	8.0	6.4
5	2.9	14.0	16.3		. 5			38.2	12.7	38.1	39.4	41.7	42.5	40.1	30.8	33.0	36.9
SW	2.0	7.8	6.0		•1			17.1	10.6	21.0	26.1	17.3	13.2	13.4	26.5	16.9	20.5
W	1.2	2.9	1.2		.1			5.7	8.9	6.0	2.4	4.8	4.8	4.3	3.6	7,3	6.8
NW	1.4	4.2	2.4		.2			8.9	9.8	7.9			7.7	7.9	3.9	11.4	10.5
VAR	.0	.0	.0		.0	.0		.0	• 0	.0	.0	.0	.0		.0	.0	.0
CALM	5.6	•						5.6	.0	6.3	6.2	6.9	6.7	6.5	6.3	4.0	3.8
TOT OBS							35142	•••	10.9	5604	151	6112	4962	5362	213	8825	3913
TOT PCT	17.1	39.7	32.5	9.2	1.4	.1		100.0		100.0	100.0					100.0	

AR	LP	A

WND DIR	0=6	WIND 7-16	SPEED 17-27		41+	TOTAL OBS	PCT	MEAN SPD	00	06 09	12 15	18 21
N	4.2	1:2	1.9	:7	.1		11.3	10.1	10.9	9.9	11.0	12.8
	1.2	.5	.1		.0		1.8	6.2	1.3	1.8	2.5	1.7
E SE	2.3	3.1	1.9	.5			7.8	12.7	5.7	8.3	9.5	7.5
5	8.7	17.8	10.0	1.6	.1		38.2	12.7	38.1	42.1	39.7	34.2
SW	5.5	8.2	3,1	.4			17.1	10.6	21.2		13.9	18.1
W	2.7	2.1	.6	.2			5.7	8.9	5.9	4.8	4.3	7.1
NW	3.4	3.7	1,3	.4	.1		8,9	9.8	7.9	7.6	7.7	11.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.6						5,6	.0	6.3	6.8	6.5	3.9
TOT GBS						35142		10.9	5755	11074	5575	12738
TOT PCT	35.6	40.9	19.2	3.9	.4		100.0		100.0	100.0	100.0	100.0

N	M	ı		

PERIOD: (PRIMARY) 1905-1978 (OVER-ALL) 1855-1978

TABLE 4

AREA 0028 VALPARAISU 34.55 73.0W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HUUR	CALM	1-3	4-10	11-21		34-47	48+	MEAN	FREQ	OBS
60300	6.3	10.8	39.5	32.6	9.2	1.4	.2	11.0	100.0	5755
90300	6.8	12.0	40.7	30.8	8.4	1.2		10.4	100.0	11074
12615	6.5	12.7	39.5	31.6		1.2	.1	10.4	100.0	5575
18621	3.9	10.8	39.0	34.3	10.2	1.6	.1	11.5	100.0	12738
TOT								10.9		35142
DCT	5.4	11.5	39.7	32.5	0 2	1.4	. 1		100.0	

P	CT FRE			LOUD A		(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN NH <5/	B BY	HTS (RECTI	14/8) JN	
WND DIR	0=2	3-4	5-7	8 & 6 085CD	TOTAL	CLOUD	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	1.2	1.1	2.3	6.4		6,1	.4	.1	. 8	1.8	3.0	1.2	.4	.1	.1	.1	3.1	
NE	.4	.4	.9	1.9		6,3	.2	.1	. 2	.3	.9	.4	.1	.0		.1	1.3	
E	.5	.2	.4	. 8		5,4		.0	.1	.1	.3	.2		.0	.1	. 2	. 8	
SE	1.2	.6	.6	.8		4,3	.1	.0	.1	.2	.4	.2				.1	2.1	
S	22.0	5.5	7.2	7.3		3,2	. 5	.1	. 6	2.3	4.4	2.5	. 5	. 2	.1	. 4	30.5	
SW	11.5	2.3	3.9	3.9		3,2	.4		. 3	1.2	2.6	1.1	. 3	.1	.1	.1	15.3	
w .	1.4	.7	1.4	1.6		4,8	.1	.0	.1	. 3	1.1	.4	. 1	.1		• ;	2.7	
NW	1.0	.8	1.8	2.4		5,5	.2	.1	.1	. 5	1.4	.8	.1	.1	.0	. 1	2.6	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.6	.9	2.4		4.8	.6	.0	.3		.8	.7	. 2	.1	.0	- 1	2.6	
TOT OBS	•••				3971	4.1	••	••				• •	••	•	••	••		3971
TOT PCT	41.0	12.1	19.4	27.5	100.0		2.6	.4	2.6	7.2	14.9	7.4	1.8	. 5	. 4	1.2	61.1	100.0

TABLE 7

	CUM	ULATIVE F CEILIN	PCT FREG	OF SIMUL	TANEDUS	DECURRE	NCE
	• DR	• OR	• DR	VSBY (NM)	• DR	• OR	
•	- 00		- 08	- 00	- 00	- 00	

					VSBY (NM)			
	CEILING	• DR	- OR	· DR	- OR	• OR	• OR	• OR	. DR
	(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
	nR >6500	.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	OR >5000	1.1	2.0	2.1	2.1	2.1	2.1	2.1	2.1
	OR >3500	2.4	3.6	3.9	3.9	3.9	3.9	3.9	3.9
	DR >2000	7.7	10.8	11.2	11.2	11.3	11.3	11.3	11.3
	OR >1000	17.5	24.7	25.9	26.0	26.1	26.2	26.3	26.3
	OR >600	21.4	31.1	33.0	33.2	33.4	33.5	33.6	33.6
	OR >300	22.3	32.9	35.4	35.7	35.8	36.0	36.1	36.2
	OR >150	22.4	33.2	35.7	36.1	36.2	36.4	36.5	36.5
•	DR > 0	22.6	33.5	36.6	37.2	37.8	38.1	38.8	39.1

TUTAL NUMBER OF OBSI 4050 PCT FREQ NH 45/81 60.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD DBS 27.1 12.6 9.1 7.0 4.9 3.7 5.2 6.5 21.8 2.1 4257

		A	

PER IOD:	(PRIMARY)	1905-1978
	(DVER-ALL)	

TA		

AREA	0028	VALP	ARAISO
	3	4.55	73.0W

		P	ERCENT		DF WIN	D DIRE	CTION TH VAR	A DCC	URRENC!	E OR N	ON-OCC	URRENC	E OF
(NM)		N	NE	F	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	PCP	.0		.0	.0	.0	.0	.0		.0	.0		003
(1/2	NO PCP	.2	.1	.1		.4	. 3	.1	.1	.0	.5	1.9	
•	TOT &	. 2	.1	.1	•	.4	.3	.1	.1	.0	.5	1.9	
	PCP	.1		.0	.0	.0	.0	.0		.0	.0	.1	
1/2<1	NO PCP				. 1	. 2	.1	:	:	.0	. 2	.7	
	TOT &	.1	.1	•	.1	.2	.1	•	•	.0	.2	. 8	
	PCP	.1						•	.1	.0	.0	.3	
1<2	NO PCP	.1	.1		. 1	. 1	. 1	. 1	. 1	.0	.1	. 8	
	TOT \$. 2	.1	.1	.1	. 2	. 1	.1	.1	.0	.1	1.1	
	PCP	.5	.1			.1		.2	. 1	.0	.0	.9	
2<5	NO PCP	. 5	.1	. 1	. 1	.6	.5	.2	. 2	.0	.3	2.6	
	TOT \$	1.0	.2	.1	.1	.7	.5	.2	. 3	.0	.3	3.5	
	PCP	.7	.2	.1		.1	.2	.1	.4	.0	.1	2.0	
5<10	NO PCP	3.4	1.4	.6	1.1	6.6	3.7	1.0	1.5	.0	1.4	20.7	
	TOT %	4.1	1.6	.7	1.2	6.8	3.9	1.1	1.8	.0	1.5	22.6	
	PCP	.2	.1			.1			.1	.0	.1	.7	
10+	NO PCP	5.3	2.5	1.2	5.3	31.4	16.3	3.6	3.5	.0	3,3	69.4	
	TOT \$	5,5	2.6	1.2	5.3	31.5	16.3	3,6	3.6	.0	3.4	70.0	
	TOT 085												5455
	TOT PCT	11.2	4.7	2.3	3.7	39.7	21.4	5.1	6.0	.0	6.0	100.0	

TABLE 9

SBY	SPU KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	-1	•1	.0		.1	.1			.0	.5	.9	503
1/2	4-10	.1	•1			.3	.2		.1	.0		. 9	
	11-21			.0	.0	.2	.1		.0	.0		.4	
	22+			.0	.0			.0		.0		.1	
	TOT \$.2	• 2			.6	.4	.1	.1	.0	.5	2.2	
	0-3							.0	.0	.0	.2	.2	
/2<1	4-10					.1				.0		.2	
	11-21		.0	.0		.1	.1	.0		.0		.2	
	22+		.0	.0	.0	.0	.0	.0	•	.0		•	
	TOT \$	-1	•	*		•1	.1		•	.0	.2	.7	
	0-3			.0	.0			.0	.0	.0	.2	.2	
1<2	4-10	.1		*		.1	.1	.1,	.1	.0		.5	
	11-21	.2		.0		.1	•		•	.0		.4	
	22+	-1		•0	.0	•	.0	.0		.0	_	.2	
	TOT \$.4	•1		•1	.3	.1	.1	.1	.0	.2	1.3	
	0-3	-1				.1	.2	.1	.1	.0	.4	1.0	
2<5	4-10	• •	•1	• 1	.1	• •	• •	.1	-1	.0		1.6	
	11-21	.3	•1	•0	•	.3	.1	:	.2	.0		1.0	
	22+	. • •	• 1		.0		.7	.2	-1	.0		. 6	
	TOT \$	1.1	•2	•1	•1	. 4	• "		.5	.0	.4	4.2	
	0-3	.3	.3	.2	.2	.6	.6	.2	.3	.0	1.7	4.3	
5<10	4-10	1.4	• 7	.3	.5	2.4	1.5	. 6	• ?	.0		8.2	
	11-21	1.3	.3	•	.1	2.6	1.7	.1	.4	.0		6.6	
	22+	7	1	•	•		2	1	2	.0		2.1	
	TOT %	3.7	1.4	.6	.9	6.4	4.1	1.0	1.6	.0	1.7	21.2	
	0-3	.6	5	.3	4	1.5	1.2	.6	. 4	.0	4.0	9.4	
10+	4-10	2.6	1.3	• 7	1.3	9.9	7.0	2.1	2.1	.0		27.0	
	11-21	2.0	.5	•1	.5	15.7	7.3	• ?	.9	.0		27.8	
	TOT \$	5.3	2.4	1.1	2.4	31.2	17.0	3.4	3.5	.0	4.0	70.3	

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A	N	N	11		

PERIOD:	(PRIMARY)	1905-1978
	(OVER-ALL)	1855-1978

AREA 0028 VALPARAISO 34.55 73.0W

PERCENT	FREQUENCY	OF	CE	L	ING	HEI	SHTS	(FEET, NH	>4/8)	AND
	Decui	DE	UC E	-	E NIL			HOUR		

HBUR (GMT)	149	150	300 599	999	1999	2000 3499	3500 4999	5u00 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
00603	2.1	.5	2.1	5.5	12.5	7.6	1.2	.4	.4	1.6	34.0	66.0	1001
06609	2.4	.0	2.1	6.8	14.6	6.8	1.8	.7	.2	1.3	36.8	63.2	1147
12615	3.2	.7	3.1	8.9	18.3	7.5	2.0	.4	.5	.8	45.2	54.8	1039
18621	2.6	.3	2.8	7.1	12.7	6.9	2.0	.6	.3	.9	36.2	63.8	982
TOT	2.6	.4	2.5	7.1	14.6	7.2	1.8	.5	.4	1.1	38.1	61.9	4169

TARIF 1

TABLE 12

					-							-		
		PERCENT	FREQUE	CY VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GHT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	1.5	.6	1.1	3.3	20.3	73.2	1810	00803	2,2	5.7	12.7	23.3	64.1	968
06609	2.0	.7	.9	4.7	21.4	70.4	2710	06609	2,5	5.0	13.7	24.7	61.6	1122
12615	3.6	1.1	2.1	4.5	21.7	67.0	1832	12615	3,3	8.3	20.3	27.7	52.0	1009
18621	2.0	.7	1.6	4.3	22,3	69.1	2097	18621	2.7	6.6	15.9	22.8	61.3	951
TOT PCT	2.2	.7	1.4	4.3	21.5	69.9	8449	TOT	2.7	6.4	15.6	24.7	59.7	4050

TABLE 13

					MAPLE TO	•				
	PERC	ENT FR	EQUENC	Y DF R	ELATIV	HUM1	DITY B	Y TEMP	TOTAL	PCT
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ
75/79	.0	.0					.0	.0		.1
70/74	.0	.0	.1	.1	.3	.3	.2	.3		1.3
65/69	.0		.1	. 2	.9	2.0	2.0	1.3		6.5
60/64	.0	.0		. 3	2.0	6.4	10.4	4.7		23.8
55/59	.0	.0		.,	2.6	9.2	19.0	11.2		42.4
50/54	.0	.0		.3	2.0	4.3	10.6	7.0		24.3
45/49	.0		.0	.1	.1	.6	. 6	, 3		1.7
40/44	.0	.0	.0	.0	.0	.0	,1	.0		.1
TOTAL		-		•					5296	100.0
PCT	-0		.2	1.4	7.9	22.8	42.9	24.7		

TABLE 14

	PERCE	NT FR	EQUENC	Y DF W	IND DI	RECTIO	N BY T	HP	
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1		.0	.0	.0
.1	.1	.1	.1	.3	.3	.1	.1	.0	
.5	.3	.2	.3	2.5	1.4	.4	.5	.0	.3
2.4	1.1	.5	.7	9.4	5.4	1.3	1.7	.0	1.3
5.8	2.1	. 8	1.7	16.7	8.2	2.0	2.3	.0	2.8
2.5	1.6	.5	1.1	9.1	5.0	1.2	1.3	.0	1.9
	.1		.2	. 5	.4	.1		.0	.2
•	•	.0	.0	.0	.0	.0	.0	.0	•
11.3	5,3	2.2	4.2	38.7	20.9	5.1	5.8	.0	6.5

TABLE 15

	MEANS,	EXTREMES	AND	PERCEN	TILES	OF TEMP	(DEG	F)	BY HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	NIN	MEAN	TOTAL
00603	77	65	63	57	52	50	43	57.2	5728
96609	70	63	61	56	51	49	40	55.8	11126
12615	78	64	52	57	51	49	41	50.5	5467
18621	80	58	65	59	54	51	41	58.9	11632
TOT	80	67	63	57	52	50	40	57.2	33953

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	MIDITY	BY HOUR	t
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00403	.0	1.4	7.5	20.6	45.5	24.8	83	1267
05409	.0	.6	5.5	18.4	45.7	29.8	95	1505
12615	.0	.5	6.7	20.8	44.1	27.8	84	1374
18821	.0	4.4	11.9	30.4	36.6	16.7	80	1393
TOT	0	92	427	1251	2396	1393	83	5559

M	M	41		

PERIOD: (PRIMARY) 1905-1978 (DVER-ALL) 1855-1978

TABLE 17

AREA 0028 VALPARAISO 73.0W

PCT	FREQ	OF 4	IR T	APER	S AL	(DEG	F) AN	D THE	OCCUP E DIF	RRENCE	OF FOS (WITHO	T PRECIE	(NOITATI)
AIR-SEA	41 44	45 48	49 52	53 56	57 60	64	68	69 72	73 76	77 80	101	FOG	FOG	
20/22	:0	.0	:0	.0	.0	.0	:0	.0	:0	.0	1 4	.0	•1	
14/16	.0	.0	:0	.0	.0	.2	:3	:1	:1	.0	35	• 0	.7	
7/8	.0	.0	.00	.1	.6	.4	:3	.1	.0	.0	55 99 102	•1	1.1	
5	.0	.0	.0	.2	1.5	1.2	.5	:1		.0	167	.1	3.3	
3 2	.0	.0	.0	2.8	3,2	2.3	.5	.1	.0	.0	273 463	.3	5.4 9.1	
0	.0	.0	.8	6.3	4.3	2.5	.6	• 1	:	.0	719	.8	12.3	
-1 -2 -3	.0	:	1.6	4.8	2,8	1.0	.5	.0	:0	.0	640 496	:7	13.0	
-4 -5	.0	.1	1.4	3.3 2.0 1.0	1.1	.7	:1	.0	.0	.0	351 223 162	.6	6.9 4.6 3.3	
-6 -7/-8	.0	.1	.5	.4	. 3	:		.0	.0	.0	65	.1	1.3	
-9/=10 -11/=13	.0	:	.0	• 1	.1	.0	.0	.0	.0	.0	10	.1	• 2	
-14/-16 TOTAL	.0	.0	•	.0	.0	.0	.0	.0	.0	.0	4727	•0	•	
PCT	•	. 8	9.1	33.5	31,1	18.1	6.0	1.1	.3	•	100.0	5.0	95.0	

PERIOD: (DVER-ALL) 1963-1978

									ADLE 10						
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIR	ECTION Y	VERSUS S	EA HEIG	HTS (FT	,	
				N								22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	FCT		1-3		11-21		34-47	48+	PCT
<1	.1	.7	. 1	.0	.0	.0	. 9		.4	.3	.1	.0	.0	.0	.7
1-2	.3	2.3	.9	.0	.0	.0	3.4		.2	.8	.2	.0	.0	.0	1.2
3-4	• 1	1.1	1.7	.1	.0	.0	3.0				.5	.0	•0	.0	1.0
5-6 7	.0	.2	1.7	• 2	.0	.0	2.0		• •		.2		• •	.0	. 2
8-9		.1	.4	.1		.0	.,				.0		••	.0	•
10-11	.0	.0	.?	.4	.1		• 7		.0	.0	.1	.1	• 1	.0	.2
	.0	.0	.2	•1	.0	.0			.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	•1	.1	.0	• 1		.0	.0	.0	.0		.0	.0
17-19	.0	.0	:0	.0	.0	.0	• • •		:0	:6	.0	.0	-	.0	*
20-22	.0	• 0	.0	.0	.0	.0	•0		.0	:0	.0	.0	• 0		.0
23-25	.0	.0	:3	.0	.0	.0	• 0		.0	• 0	.0	:0	• 0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	:0	• 0	.0	.0
41-48	.0	.0		.0	.0	.0	• 0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	7 3 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		.0	.0	.0	.0	• 0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.4	5,3	1.1	.3		11.7		.6	1.5	1.1	.1	000100000000000000000000000000000000000	.0	.0 .0 3.3
	•			•••	•-		•••		•	•••	•••	••	•		•••
												SF			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	SE 22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4		. 2	.2		.0	.0	.0	
1-2		.2	.1	.0	.0	.0	2			.6	.1	.0	.0	.0	.4 .8 .5 .5
3-4	.0	. 2		.0	.0	.0	. 2		.1	.2	.2		.0	.0	.5
5-6	.0	.0	.1	.0	.0	.0	.1		.0	.1	.3	.1	.0	.0	.5
7		.0	.0	.0	.0	.0			.0				.0	.0	. 1
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0		.1	.0	.0	:1
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.1	.0	.0	. 1
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	. 0
13-16 17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0			.0	.0
17-19	.0	.1	.0	.0	.0	.0	,1		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32 33-40	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	0000000000	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
TOT PCT	. 1	.7	.2	.0	.0	.0	1.1		.3	1.1	.8	.3	•	.0	2.5

									ANNUAL							
PERIODI	COVE	(-ALL)	1963-1	978		~		TARLE	18 (CONT)				AKEA	34.		.OM
				PC	T FREQ	OF MIND	SPEED	(KTS)	AND DIREC	TION	VERSUS S	EA HEIG	HTS (FT	,		
HGT	1-3			5	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	4-10	11-21	22-33	.0	.0	1.9		1-3	1.0		.0	.0	.0	1.8	
1-2	.5	4.9	3.5	.0	.0	.0	8.9		.4	3.3		.0	.0	.0	6.1	
3-4	.1	3.9	8.4	.7	.0	.0	13.1			2.3		.3	:0	.0	6.5	
5-6	.1	1.1	6.4	1.4	.0	.0	9.0		.1	.9		.7	.0	.0	3.8	
7	.0	.4	3,3	1.9	.1	.0	5.7		.0	.2		.5	.1	.0	2.1	
8-9	.0	.1	.9	1.7	.2	.0	2,8			.1		.2		.0	. 8	
10-11	.0	.0	.5	.8	.1	.0	1,5		.0	.0		.1		.0	.2	
12	.0	.0	.1	.3	. 2	.0	. 6		.0	.1				.0	.1	
13-16	.0	.0	.1	.6	.1	.0	. 8		.0	.0		.1		.0	.1	
17-19	.0	.0	.0	.0		.0	•		.0	.1		.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	:0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	11.9	23.3	7.5	.7	.0	44,3		1.2	7.8	10.5	2.0	.1	.0	21.5	
												NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.5	.5	.0	.0	.0	.0	1.0		.4	.4	•	.0	.0	.0	.9	
1-2	.2	1.5	.4	.0	.0	.0	2,1		.2	1.4	.7	.0	- 0	.0	2.3	
3-4	.2	.8	.3	.0	.0	.0	1,2			.6	.7	.0	.0	.0	1.3	
5-6		. 2	.2	.1	.0	.0	.6			.2	.4	.1	.0	.0	.7	
7		.1	.1	.0	.0	.0	.2			.1	.3		0		.4	
8-9	.0	.0	.0		.0	.0			.0	.0		.1	.0	.0	.2	
10-11	.0	.0	.0		.0	.0			.0	.0			0	.0		
12	.0	.0		.0	.0	.0	•		.0	.0		.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.c	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	,0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.000	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		•0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	•0	.0	.0	.0			.0		.0	• 0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0			•0				.0	.0		
B7+	.0	3.0	1.1	.0	.0	.0	5.2		.7	2.6		.0	.0		5.8	95.5
IUI PCI	.,	3.0	1.1	• 2	.0	.0	3,6		• '	2.0	2.2	.,		-	3.0	,,,,,

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	7.6	4.8	.4	.0	.0	.0	12.8	003
1-2	2.2	14.9	8.3	.0	.0	.0	25.4	
3-4	.5	9.3	15.6	1.1	.0	.0	26.5	
5-6	.3	2.6	11.2	2.6	.0	.0	16.7	
7	.1	. 8	5.5	2.6	.1		9.1	
8-9		, 2	1.8	2.6	. 3	.0	4.9	
10-11	.0	.0	.8	1.2	.3	.0	2.2	
12	.0			*.4		.0	.,	
	.0		.1		.3			
13-16	.0	.0	.1	. 8	.,	.0	1.2	
17-19	.0	.1	.0	.0		.0	.1	
20-22	.0	.0	.0		.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0		.0	.0		.0	
			.0					
87+	.0	.0	.0	.0	.0	.0	.0	
				2000				2273
TOT PCT	10.8	32.8	43.9	11.3	1.2		100.0	

PERIO) (DV	ER-ALL	195	1-1976					TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HEI	HT (F	7) VS	HAVE PI	ERIOD	(SECON	08)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-80	87+	TOTAL	MEAN
<6	1.6	6.2	9.1	5.3	2.5	1.9	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1021	4
6-7	.1	. 8	5.3	8.7	5.8	3.5	2.1	.9	.9	. 2		.0	.0	.0	.0	.0	.0	.0	.0	1033	6
8-9	.1	.7	2.1	3.2	4.7	3.2		1.1		.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	676	7
10-11	.0	. 7	1.0	1.6	2.0	1.5	1.5	. 8	.7	.3		.0	.0	.0	.0	.0	.0	.0	.0	366	8
12-13	.0	.0	1.0	.6	.5	.5	.4	.4	.5	.1	.0	.0			.0	.0	.0	.0	.0	144	7
>13	.0	.0		.6	.3	.7	.4	.1	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	98	9
>13 INDET	2.9	1.0	1.1	. 8	.7	. 6	.6	.1		.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	282	4
TOTAL										•			• • •							3620	6
PCT	4.6	9.3	19.8	20.9	16.4	11.9	8.0	3.7	4.2	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

			PERCE	NT FRE	QUENCY	OF 00	CURREN	CE OF	SEA TE	MP (DE	G FI B	Y MONT	н	
SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76			.0		.0	.0	.0	.0	.0	.0	.0	.0	3	
73/74	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	5	
71/72	.1	.3	.0	.1		.0	.0	.0	.0	.0	.0	.1	15	
69/70	.7	. 5	.4	.2	.0	.0	.0	.0	.0	.0		.1	49	.1
67/68	2.1	3.4	4.6	:7	.1		.0	.0	.0	.0		.4	308	. 9
65/66	5 0	9.6	8.4	2.0	:4		.2	•1	.0		.1	1.5	752	2.2
63/64	18.8	18.3	15.5	8.1	2.8	.6	.1	.0	•		1.1	8,2	1961	5.8
61/62	21.1	15.0	15.6	11.8	10.6	2.4	1.0	.1	.0	, 8	5,5	19.4	2805	8.3
59/60	17.5	16.8	17.6	20.2	18.8	11.9	6.0	1.9	1,3	5.0	16.7	26.7	4424	13.1
57/58	15.1	16.8	15.8	18.6	24.0	24.8	17.5	8.5	10.1	17.1	26.3	20.0	6044	17.8
55/56	11.7	12.4	14.5	22.0	24.7	33.2	33.0	30.1	31.6	38.7	27.7	14.8	8450	24.9
53/54	5.6	5.4	6.3	12.2	14.0	19.1	29.2	37.6	39.6	28.1	15.4	6.7	6367	18.8
51/52	1.4	1.5	1.1	3.4	3.6	6.1	10.5	17.2	14.6	8.9	6.1	1.7	2214	6.5
49/50	***		2	3.5	. 3	1.7	2.1	3.5	2.4	1.2	.,		405	1.2
47/48		.0	:0		.1	.2	.3	.7	.3	.3	.1	.0	64	.2
45/46	.0	.0	• 0	.1				.2	.,		.1	.0	12	
43/44	:0	.0	.0	.0	.0	:0	.0	.0	.0	.0	:0	.0	0	.0
41/42	.0	.0	• 0	.0	.0	.0	.0,	.0	.0	.0	.0	.0	ŏ	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ŏ	.0
37/38	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	ő	.0
35/36	:0	.0	.0	:0	.0	.0	.0	.0	.0	.0	.0	.0	ő	.0
33/34	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	ő	.0
31/32	:0		:0	.0	.0		.0	.0	.0	.0	.0	.0	ő	.0
29/30		.0	.0		.0	.0	.0	.0		.0	.0	.0	0	
	.0		.0	.0	.0	.0	.0		.0			.0	ó	.0
27/28	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0		.0
<27	.0		2987	2575	0	.0	3214	2823	3043	2908	.0	2784	33878	.00
TOTAL	2624	2374	2787		2916	2907					2723			100.0
MEAN	60.0	60.1	59.9	57.9	57.1	55.9	55:0	54.0	54.2	55.0	56.5	58.7	57.0	
							. 11							
							1							

			AV	ERAGE	BY HOU	R (GMT	,			
										TOTAL
MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	085
JAN	1015	1016	1015	1015	1015	1016	1016	1015	1015	1247
FEB	1015	1015	1014	1014	1015	1015	1016	1015	1015	927
MAR	1016	1017	1015	1015	1015	1017	1016	1016	1016	1207
APR	1017	1016	1016	1016	1016	1016	1017	1016	1017	1263
MAY	1017	1016	1017	1018	1018	1020	1017	1018	1017	1158
JUN	1018	1016	1018	1017	1017	1019	1017	1017	1017	1338
JUL	1018	1018	1018	1017	1018	1020	1018	1017	1018	1637
AUG	1019	1021	1019	1019	1019	1019	1019	1019	1019	1341
SEP	1019	1020	1019	1018	1019	1018	1019	1019	1019	1484
DCT	1019	1018	1018	1018	1019	1020	1019	1019	1019	1281
NOV	1018	1020	1018	1017	1018	1018	1018	1018	1018	1214
DEC	1016	1014	1015	1015	1016	1015	1017	1016	1016	1381
ANN	1017	1017	1017	1017	1017	1018	1017	1017	1017	15478
OBS	2436	148	2592	1460	2504	205	4880	1253		

MO MIN 1x 5x 25x 50x 75x 95x 99x MAX

JAN 1005 1008 1010 1013 1015 1017 1021 1023 1030

FES 1005 1008 1010 1013 1015 1017 1020 1024 1026

MAR 1005 1008 1010 1014 1016 1018 1021 1023 1028

APR 1002 1009 1012 1015 1016 1018 1021 1023 1028

APR 1002 1009 1012 1015 1016 1018 1022 1025 1028

APR 1001 1009 1010 1015 1017 1020 1024 1026 1028

JUN 1000 1005 1006 1014 1017 1021 1027 1029 1033

JUL 998 1004 1008 1015 1018 1021 1022 1028 1035

AUG 998 1004 1008 1015 1018 1021 1022 1028 1035

AUG 998 1004 1008 1015 1018 1021 1022 1026 1029 1032

CCT 1005 1010 1012 1017 1019 1022 1026 1029 1032

CCT 1005 1007 1011 1014 1016 1018 1022 1024 1027 1030

DEC 1005 1007 1011 1014 1016 1018 1022 1024 1027 1030

JANUARY

PERIOD: (PRIMARY) 1910-1978 (OVER-ALL) 1870-1978

TABLE 1

AREA 0029 CDQUIMBD 28.55 71.9W

PERCENT	FREQUENCY	OF	WEATHER	DCCURRENCE	BY	WIND	DIRECTION
---------	-----------	----	---------	------------	----	------	-----------

						- 1000	-				COMP. CONTRACTOR				
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
KNO DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
N	.0	.0	3.6	:0	.0	.0	.0	3.6	.0	:0	.0	.0	3.6		92.8
NE	.0	.0	.0	.0			.0	.0	.0	.0	11.4	.0	.0	.0	88.6
E	.0	.0	30.8	.0	.0		.0	30.8	.0	.0	.0	.0	.0	.0	69.2
SE	.0	.0	.0	.0	.0	-0	.0	.0	2.5	.0	.0	,0	2.5	.0	95.0
5	.0	.2	.7	.0	.0	-0	. 2	1.1	.6	.4	1.1	.0	.7	.0	96.1
SW	. 6	.0	.2	.0	.0	.0	.0	.8	.0	.6	1.2	.0	1.7	.0	95.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.7	.0	.0	2.7	.0	86.7
NW	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	4.7	.0	2.3	.0	4.7	.0	88.4
TOT PCT	848	.1	.7	.0	•0	.0	.1	1.1	.7	.6	1.2	•0	1.3	•0	95.2

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
00803 00809	.5	.0	1.4	.0	.0		.0	1.4	.9	2.5	.5	.0	1.8	.0	95.4
12615 18621	.0	.5	.9	.0	.0	.0	.0	1.4	1.4	.0	3.2	.0	2.3		91.9
TOT PCT	.1 856	.1	.8	.0	.0	•0	.1	1.2	.7	.7	1.2	•0	1.3	.0	95.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3	4-10	D SPEE 11-21	D (KN)	0TS) 34-47	48+	TOTAL QBS	PET	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21
N	1.5	1.7	.2	.0	.0	.0		3.5	5.1	1.5	.0	3.2	3,6	5.4	.0	4.1	2.8
NE	.4	. 8	.1	.0	.0	.0		1.2	5.4	.2	.0	.7	. 9	3,8	.0	1.3	. 3
E	.7	.8	.1	.0	.0	.0		1.6	4.8	.6	.0	.9	3,5	2.6	.0	1.4	.7
SE	1.3	3.9	3.7	.5		.0		9.4	10.4	7.5	6.3	9.3	10.4	11.5	6.5	9.5	8.1
S	6.2	25.3	21.4	3.1		.0		57.0	10.6	64.2	70.0	60.1	52.4	51.9	57.3	54.0	59.5
SW	2.8	9.6	4.4	.3		.0		17.1	8.4	19.4	13.8	16.5	17.1	14.3	16.9	16.9	19.7
W	. 8	1.4	.1	.0	.0	.0		2.4	5.0	2,3	.0	1.7	1.9	1.0	5.6	3.1	4.8
NW	. 8	1.2	.0		.0	.0		2.0	4.9	. 8	.0	1.7	1.6	2.5	4.0	2.7	2.0
VAR	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.9	••	•	•	• •			5.9	.0	3,6	10.0	5.8	8.5	7.0	9.7	7.0	2.0
TOT OBS	609	1369	900	117	3	0	2998		9.0	533	20	504	364	513	31	729	304
TOT PCT	20.3	45.7	30.0	3,9	,1	.0		100.0		100.0							

TABLE 3A

WNO DIR	0-6	WIND 7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00	HDU 06 09	R (GMT 12 15	18 21
N	2.6	.8	.1	.0	.0		3.5	5.1	1.4	3.4	5.1	3.7
NE	.9	.4	.0	.0	.0		1.2	5.4	.2	. 8	3.5	1.0
	1.2	.4	.0	.0	.0		1.6	4.8	.6	2.0	2.4	1.2
SE	3.1	4.6	1,5	.2	.0		9.4	10.4	7.5	9.8	11.2	9.1
5	17.4	28.6	10.4	.5	.0		57.0	10.6	64.4	56.9	52.2	55.6
SW	8.1	7.4	1.6	.1	.0		17.1	8.4	19.2	16.8	14.5	17.7
W	1.9	.4	.1	.0	.0		2.4	5.0	2.2	1.8	1.2	3.6
NW	1.6	.4		.0	.0		2.0	4.9	.7	1.7	2.6	2.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.9						5.9	.0	3.8	6.9	7.2	5.5
TOT DBS	1280	1287	408	23	0	2998		9.0	553	868	544	1033
TOT DET	42.7	42.0	12.6		. 0		100.0		100.0	100.0	100.0	100.0

.1			0	

PERIOD: (PRIMARY) 1910-1978 (OVER-ALL) 1870-1978

TABLE 4 AREA 0029 CD0UIHBD 28,55 71.9W

 CREAMENTY	OF	WIND	SPEED	84	HOUR	(GAT)

HUUR	CALM	1-3	4-10	WIND 11-21		KNOTS) 34-47	48+	MEAN	FREQ	TOTAL
00603 06609 12615 18621 TUT PCT	3.8 6.9 7.2 5.5 177 5.9	9.4 11.5 18.0 17.6 432 14.4	44.5 45.7 47.1 45.5 1369 45.7	35.4 32.4 24.8 27.9 900 30.0	6.5 3.5 2.9 3.4 117 3.9	.0	.00000	7.9	100.0 100.0 100.0 100.0	553 868 544 1033 2998

			TA	BLE ?														
•	CT FRE	OF T	DTAL C	LOUD A	TION	(EIGHTHS)		1	PERCEN	TAGE F	REQUEN	CY OF	CEILIN NH <5/	B BY W	IND DI	T,NH >	4/8) N	
WND DIR	0=2	3-4	5-7	8 & n8500	TOTAL	COVER	300 149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999		NH <5/8	DBS
NEESS WARM CALMOST TOT PET	13.4 4.9 .2 .0 1.7 140 21.6	.0 .2 .0 .7 7.6 2.0 .2 .3 .0 .2 .7	.6 .1 .2 2.1 19.1 4.1 1.4 .0 .0		644		.0 .0 .0 .0 .0 .0 .0 .0	.0	1.0	.1 .2 .0 .3 7.1 2.3 .0 .0 .0 .0 .0	1.0 .3 .0 1.8 17.9 5.0 .6 .4 .0 1.5 187 28,8	.0 .0 1.1 8.4 1.5 .2 .0 .0 .9 78	.2 .3 3.0 1.1 .0 .0 .2 .2 .2	1.5		.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	.5 .2 1.4 23.8 8.2 .7 .8 .0 2.2 247 38.1	649

				VSBY (NM)			-
CERCONC	· OR	. DR	= DR	- OR	- OR	• QR	• OR	= 06
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>5040	>0
OR >6500	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.
DR >5000	2.9	3.4	3.4	3.4	3.4	3,4	3.4	3.
TR >3500	6.9	8.3	8.3	8,3	8.3	8,3	8.3	8.
DR >2000	14.7	19.9	20.4	20.4	20.4	20.4	20.4	20.
OR >1000	40.7	48.5	49.3	49.3	49.3	49.3	49.3	49.
	49.2	58.2	59.3	59.3	59.3	59.3	59.3	59.
TR >600		60.5	61.7	61.7	61.7	61.7	61.7	61.
DR >300	-0.7	60.6	61.9	61.9	61.9	61.9	61.9	61.
TR >150	50.7	60.8	62.0	62.0	62.0	62.0	62.0	62.
TOTAL	50.7 331	397	405	405	405	405	405	40

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	OBSCD	DES

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								JA	NUARY						
PERIODI	(PRIMARY) 1:	910-1978 870-1978						TAI	BLE 8				ARE	A 0029 CDQUIM	80 71.94
			96	RCENT	PREC	DF WIN	ION WI	CTION TH VAR	YING V	URRENCE ALUES	E GR N	IBILIT	URRENC	E OF	
	VSBY		N	NE	E	SE	5	SW		NW	VAR	CALM	PCT	TOTAL OBS	
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	<1/2	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1		
		TOT \$.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1		
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	1/2<1	NO PCP	.0	.0	.0	.0	. 2	.0	.0	.0	.0	.0	.2		
		TOT \$.0	.0	.0	•0	.2	.0	.0	.0	.0	.0	.2		
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	1<2	NO PCP	.0	.0	.0	. 1	. 1	.0	.0	.0	.0	.1	.4		
		TOT \$.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.4		
		PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1		
	2<5	NO PCP	.1	. 1	.0	. 4	1.0	.2	.0	.0	.0	.4	2.1		
		TOT *	. 1	.1	.0	.4	1.1	.2	.0	.0	.0	.4	2.2		
		PCP	. 1	.0	.0	.5	.4		.0	.0	.0	.0	.6		
	5<10	NO PCP	. 5	.2	.0	.5	9.3	2.9	1.0	.5	.0	1.2	16.2		
		TOT %	.6	.2	.0	.5	9.7	2.9	1.0	.5	.0	1.2	16.8		
		PCP	.0	:9	. 1	3,7	.1	.1	.0	.0	.0	.0	.4		
	10+	NO PEP	2.5	.7	.3	3.7	51.0	15.7	1.2	1.4	.0	3.4	79.9		
		TOT %	2.5	.7	.4	3.7	51.1	15.9	1.2	1.4	.0	3.4	80.3		
		TOT 985												847	
		TOT PCT	3.3	1.0	.4	4.8	62.4	18.9	2.2	1.9	.0	5.1	100.0		

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(1411)	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	003
<1/2	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	••	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	•0	•0	.2	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10		.0	.0	• 1	.1	.0	.0		.0		.3	
	11-21	.0	• 0	.0	.0	.1	.0	.0	.0	.0		.1	
	22+	.0	• 0	.0	• 0	.0	.0	.0	.0	.0		.0	
	TOT \$	•	•0	•0	• 1	• 2	.0	.0	•	.0	.1	.5	
	0-3	-1	.0	.0	.0	.0	.0	. 1	.0	.0	.4	.6	
2<5	4-10	.0	•1	.0	.0	.6	.5	.0	.0	.0		1.2	
	11-21	.0	•0	.0	.3	.4	•	.0	.0	.0		.7	
	22+	.0	•0	.0	.0	. • 1	.0	.0	.0	.0		• 1	
	TOT \$.1	•1	•0	.3	1.2	.5	.1	.0	.0	.4	2.6	
-	0-3	.3	.0	.0	.0	1.0	.4	.3	.1	.0	1.6	3.7	
5<10	4-10	.4	.3	.0	.4	4.8	2.3	.6	.3	.0		9.2	
	11-21	.0	•0	.0	.2	3.5	. 8	.1	.0	.0		4.6	
	22+	.0	•0	.0	.0	. 8	.1	.0	.0	.0		.8	
	TOT \$.7	.3	•0	•6	10.1	3.6	1.0	.4	.0	1.6	18.4	
	0-3	1.0	•2	.2	.1	2.6	1.6	.2	.5	.0	3.5	9.8	
10+	4-10	1.5	.6	.4	1.4	18.5	10.4	.7	.7	.0		34.2	
	11-21	.1	•1	• 1	1.9	22.4	5.5	.2	.0	.0		30.3	
	22+	.0	.0	.0	.2	3.5	4	0	0	.0		4.0	
	TOT \$	2.6	.9	•6	3.6	47.1	17.8	1.0	1.2	.0	3.5	78.3	
	nT 085	-											1077
T	DT PET	3.5	1.2	.6	4.6	58.8	21.9	2.2	1.7	.0	5.6	100.0	

4	-		•	

PERIOD:	(PRIMARY)	1910-1978
	(DVER-ALL)	1070-1070

AREA 0029 COQUIMBO 28.55 71.9W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	909	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8	TOTAL
(GMI)	1.4	244	377	444	1444	3477	****	0477	7977			-141 -141	003
€0300	.0	.0	2.2	9.8	28.3	11.4	3.3	1.6	.5	.5	57.6	42.4	184
06609	.0	.0	2.1	7.0	27.3	13.3	4.9	1.4	.0	.7	56.6	43,4	143
12615	.6	.6	3.4	13.6	34.1	11.4	5.7	2.3	.6	.0	72.2	27.8	176
18621	.0	.0	1.8	7.8	22.8	11.4	5.4	2.4	1.2	1.8	54.5	45,5	167
TOT	.1	.1	16	9.7	189	79	4.8	13	.6	.7	405	39.6	670

TABLE 1

		PERCENT	PREQUENC	Y V58Y	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GHT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.0	.0	.4	2.3	15.8	81.5	259	00603	.0	2.2	13.3	46.1	40.6	180
06609	.3	.0	.0	1.0	21.5	77.2	289	06809	.0	2.2	10.9	46,9	40-1	137
12615	.0	. 8	.8	3.4	19.9	75.1	261	12615	.6	4.6	19.7	53.8	26.6	173
18621	.0	.0	.7	3.6	16.7	79.0	276	18621	.0	1.8	11.0	45.4	43.6	163
TOT	.1	.2	.5	28	201	848 78.2	1085	TOT	.2	18	91	317	245 37.5	653

TAI			•	2
	٠.	•		

	PERC	ENT FRI	EQUENCY	OF R	ELATIV	HUMI	ITY BY	TEMP	TOTAL	729
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ
80/84	.0	.0	.0	.3	.0	.0	.0	.0	2	.3
75/79	.0	.0	.0	. 3	.6	.3	:0	.0	8	1.1
70/74	.0	.0	.1	.,	2.5	2.7		, 3	48	6.8
65/69	.0	.0	.0	. 3	4.0	16.3	14.1	6.5	291	41.2
60/64	.0	.0	.0	. 3	1.6	12.0	20.2	13.7	338	47.8
55/59	.0	.0	.0	.0	.1	.3	1.0	1.4	20	2.8
TOTAL	0	0	1	10	62	223	256	155	707	100.0
PCT	.0	.0	•1	1.4	8.8	31,5	36,2	21.9		

TABLE 14

	PERCENT	FRI	EQUENCY	0 F	MIND	DI	RECTION	BY	TEMP	
N	NE	E	SE	s	: !	W	W	NW	VAR	CALM
:0	:0	.0	:0	• 1		1 5	.0	.0	:0	.0
. 3	.2	.ž	.2	25.5	1 1	8	.6	·i	.0	.6
1.7	.5	:1	2.4	32.3	7	1	.4	1.0		2.3
.0	.1	.0	•0	2.0		.4	•0	•0	.0	.3
2.8	1.4	-6	5.6	63.3	17.	. 7	2.5	2.1	- 0	4.3

TABLE 15

	MEANS,	EXIKEME	S AND	BEKCEN	TILES	Ge AF	P (DE	C +) 8	Y HOUR
HOUR (GMT)	MAX	99\$	95%	50%	5%	18	MIN	MEAN	TOTAL
00603	80	72	69	64	60	58	57	64.5	544
06609	75	70	68	63	59	58	52	4.50	874
12615	73	72	69	64	59	58	55	63.8	540
18621	82	78	74	67	62	60	57	67.5	894
TOT	82	75	71	64	60	58	52	64.8	2852

8

	PERC	ENT FRE	GUENCA	OF RELA	TIVE H	UMIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00403	.0	1.1	5.9	29.3	42.0	21.8	82	188
90300	.0	1.2	8.6	25.8	40.5	23.9	83	163
12815	.0	.0	5.9	29.6	37.6	26.9	83	186
18821	.0	4.0	15.8	40.7	23.7	15.8	78	177
TOT	0	11	64	224	257	158	81	714

JANUARY

							ANUA	.,						
PERIOD:	(PRIMARY) (OVER-ALL)	1910-1978 1870-1978				TA	BLE :	17			AR	EA 00:	28.55	71.9W
		PCT FREQ OF AI	R TEMPERAT	URE (DEG F	EMPER	THE	OCCUR DIFF	RENCE	OF FOG	(WITHOU	T PRE	IPITATIO	ON)
			AIR-SEA THP DIF	53 56	60	61	65 68	69 72	73 76	77 80	TOT	FOG	FOG	
			14/16	.0	.0	.0	:1	.0	.0	.0	,1	:0	1:3	
			9/10	.0	.0	:1	.4	:3	.5	.0	11	.0	1.3	
			7/8	.0	.0	.,	. 5	1.1	.3	.0	22	.0	2,8	
			6	.0	.1	.3	.6	.6	.0	.1	14	.0	1.8	
			5	.0	.0	1.4	1.8	1.0	.1	.0	34	.0	4,3	
			4	.0	.5	1.0	2.0	.3	.4	.0	33	.1	4.1	
			3	.0	.4	1.7	3.4	1.5	.0	.0	55	.1	6.9	
			2	.0	.4	3.8	2.9	. 9	. 3	.0	65	.0	8.3	
			1	.0	.5	5.3	5.0	. 8	. 3	.0	93	.1	11.7	
			0	.0	1.5	7.6	5.7	1.3	.0	.0	127	.3	15.9	
			-1	.0	.5	5.3	5.0	.9	.0	.0	92	.1	11.6	
			-2	.0	1.7	5.1	4.7	1.0	.1	.0	99	.1	12.5	
			-3	.0	.5	3.9	2.4	.1	.0	.0	55	.1	6.9	
			-4	.0	. 5	3.4	.9	.1	.0	.0	39	.0	5.0	
			-5	.0	.1	1.3	.6	.0	.0	.0	16	.0	2.0	
			-6	.0	.3	. 3	. 5	.0	.0	.0	8	.1	. 9	
			-7/-8	.1	. 1	.5	.4	.0	.0	.0	9	.0	1.1	
			-9/-10	.0	.0	.0	.3	.0	.0	.0	2	.0	.3	
			-11/-13	.0	.0	.1	.0	.0	.0	.0	1	.0	.1	
			TOTAL	1		282		80		2		10	776	

PERIOD: (DVER-ALL) 1963-1978

				PC	T FREQ	OF MIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)			
				N								NE 22-33				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-2	.3	.6	.3	.0	.0	.0	1.4		.0	.3	.0	.0	.0	.0	. 3	
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.3	.0	.0	.0	.0	.3	
3-6	.0	.3	.0	.0	.0	.0	. 3		.0	.0	.0	.0	••	.0	.0	
.7_	.0	.0	.0	.0	.0	.0	•0		.0	.0	.0	.0	• •	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	.0	.0	.0	••	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	•0		.0	.0	•0	.0	• 0	.0	.0	
12 13-16 17-19 20-22	.0	.0	.0	.0	.0	.0	•0		.0	•0	.0	.0	• 0	.0	.0	
13-10	.0	:0	.0	.0	:0	.0	• 0		.0	•0	.0	.0	• 0	• • •	.0	
20-22	.0	:0	:0	.0	.0	.0	• 0		.0	• 0	.0	:0	• 0	••	.0	
23-25	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	•0	
24-12	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	:0	.0	.0	.0	
23-25 26-32 33-40 41-48 49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	- 0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0	
87+ TOT PCT	.3	. 9	.0	.0	.0	.0	1.5		.0	.6	.0	.0	.0	.0	.6	
				_												
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1		.0	.0	.0	.0	.0	.0		.0	.6	.0	.0	0	.0	.6	
1-2	.0	.0	.0	.0	.0	.0	.0		.0	1.1	.7	.0	.0	.0	1.7	
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.3	1.4	.0	.0	.0	1.7	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.2	1.2	.0	.0	.0	1.4	
7	.0	-0	.0	-0	-0	.0	.0		.0	.0	.5	.0	.0	.0	.5	
9-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.1	.3	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12 13-16 17-19 20-22 23-25 26-32 33-40	.0	.0	.0	.0	.0	.0	.0		.0	.00	.0	.0	000000000000000000000000000000000000000	.0	.0	
41-44	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	• 0	.0	.0	.0		.0	0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	2.1	3.8	.2		.0	6.4	

PERIOD:	INVE	R-ALL)	1962-	1078					JANU	ARY				AREA	0029	CDQUIMB	0
	LUVE		1,03-					TABLE	18 ((THES					28.		
				PC	T FREQ D	F WIND	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT			
HGT		4-10	11-21	\$ 22-93	34-47	48+	PET			1-3	4-10	11-21	22-33	34-47	48+	PCT	
< 1	1-3	2.7	11-21	.0	.0	.0	3.5			.5				.0	.0	1.1	
1-2	1.7	11.1	2.7	.0	.0	.0	15.5			.5	4.4			0	.0	6.2	
3-4	.,9	5.5	12.9		.0	.0	19.9			.0	1.4			0	.0	3.4	
5-6	.0	1.4	14.4	1.4	.0	.0	17.3			.0	1.1			.0	.0	2.7	
7	.3	.0	4.8	1.1	.2	.0	6.5			.0	.3			:0	.0	.9	
8-9	.0	.3	. 8	1.7	.0	.0	2.8			.0	.0	.1	.0	.0	.0	. 1	
10-11	.0	.0	1.1	1.9	.0	.0	2.9			.0	.0	.1		:0	.0	.2	
12	.0	.0	.0	.5	.0	.0	.5			.0	.0	.0		:0	.0	.1	
13-16	.0	.0	.0	.6	.0	.0	.6			.0	.0			.0	.0	.0	
17-19	.0	.0	.0	.5	.0	.0	.2			.0	.0			000000000000000000000000000000000000000	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			• • •	.0		
26-32 33-40	.0	.0	.0	•0	.0	•0	.0			.0		.0		•6	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0				• 0	.0	.0	
49-60	.0	:0	.0	.0	.0	.0	.0			.0	:			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0				.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0				.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
TOT PCT	3.7	21.0	36.7	8.0	.2	.0	69.7			.9	7.6	5,5		0 0	.0	14.7	
													NU				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.5	.0	.0	.0	.0	.0	. 5			.3				.0	.0	.3	
1-2	.0	.9	.0	.0	.0	.0	.9			. 3	.3			.0	.0	.6	
3-4	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		:0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.:			.0	.0	.3	
7	.0	.0	.0		.0	.0	.0			.0	. (.0	.0	.0	
8-9	.0	.0	.0		.0	.0	.0			.0	.0			00000	.0	.0	
10-11	.0	.0	.0	•0	.0	.0	.0			.0				.0	.0	.0	
12	.0	.0	.0		.0	.0	.0			.0		0		.0	.0	.0	
13-16	.0	.0	.0	•0	.0	.0	.0			.0				•0	.0	.0	
17-19	.0	.0	.0	•0	.0	.0	.0			.0	:			0.	.0	:0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	:			.0	.0	.0	
26-32	.0	.0	•0		.0	.0	:0			.0	:			• 0	.0	.0	
33-40	.0	.0	.0		.0	.0	:0			.0	:			000000000		.0	
41-48	.0	.0	.0		.0	.0	.0			.0	:			.0	.0	.0	
49-60	.0	:0	.0		.0	.0	.0			.0				.0	.0	.0	
61-70	.0	.0	.0		.0	.0	.0			.0				.0	.0	.0	
71-86	.0	.0	.0		.0	.0	.0			.0	. (.0	.0	.0	
87+	.0	.0	.0		.0	.0	.0			.0	. (.0	.0	.0	
TOT PCT	.5	.9	.0		.0	.0	1.4			.6				.0	.0	1.2	95.5
			•														

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.9	3.9	.0	.0	.0	.0	10.8	DBS
1-2	2.7	18.5	5.1	.0	.0	.0	26,3	
3-4	.9	7.5	16.2	.6	.0	.0	25.1	
5-6	.0	3. 3	17.1	1.5	.0	.0	21.9	
7	.3	. 3	5.7	1.2	,3	.0	7.8	
8-9	.0	. 2	. 9	1.8		.0	3.0	
10-11	.0	.0	1.2	2.1	.3	.0	3.6	
12	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	•0	.6	.0	.0	.6	
17-19	.0	.0	.0	,3	.0	.0	.3	
20-22	.0	.0	.0		.0	.0	.0	
23-25	.0	.0	.0		.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0		,0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0		.0	.0	.0	
71-86	.0	.0	.0		.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								334
TOT PCT	10.8	33.8	46.1	8,7	.6	.0	100.0	

PERIOD	1 (DV	ER-ALL	194	9-197					TABLE	19											
					PERCENT	FRE	PUENCY	OF W	AVE HEI	GHT (FT) VS	WAVE P	ERIOD	(SECON	(2)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	1	2 13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
46	1.3	9.6	10.0	5.9	3.4	1.3	1.1		4 .2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	185	
6-7	.0	2.1	5.0	14.3	7.9	2.3	1.8			.0	.0		.0		.0	.0	.0	.0	.0	173	6
8-9	.0	.9	2.3	2.3	3.4	3.8	1.1	1.	4 1.3	.2	.0	.0	.0		.0	.0	.0	.0	.0	93	7
10-11	.0	1.1	.4	2.0		1.4	.4			.0	.0	.0	.0		.0	.0	.0	.0	.0	46	7
12-13	.0	.0	. 2	.2	.9	.2	.0		4 .4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
>13	.0	.0	.0	.4	.5	.2	.0			.0	.0	.0	.0		.0	.0	.0	.0	.0	6	7
INDET	2.5	1.4	1.8	.9	1.1	.4	.0		0 .0	.0	.0		.0		.0	.0	.0		.0	45	3
TOTAL	21	85	110	128	106	53	24	1	7 15	1	0	0		0	0	0	0	0	0	560	5
PCT	3.8	15.2	19.6	22.9	18.9	9.5	4.3	3.		.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1909-1978 (OVER-ALL) 1870-1978

TABLE 1

AREA 0029 CDQUIMBO 28.75 71.9W

PERCENT FREQUENCY	DE	WEATHER	DECHIBOENCE	RY	MINO	OTRECTTON

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUS BLWG SND	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	.0	16.0	.0	76.0
NE	.0	.0	17.4	.0	.0	.0	.0	17.4	.0	.0	.0	.0	.0	.0	82.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	97.3
S	.0	.0	. 8	.0	.0	.0	.0	. 8	1.0	.0	1.2	.0	2.0	.0	95.0
SW	.0	.0	1.7	.0	.0	.0	.0	1.7	. 9	.0	.9	.0	3.2	.0	93.3
W	.0	.0	6.6	.0	.0	.0	.0	6.6	3.3	.0	.0	.0	3.3	.0	86.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2	.0	3.2	.0	.0	.0	.0	3.2	3.2	.0	.0	.0	.0	.0	93,5
TOT PCT	741	•0	1.3	.0	.0	•0	•0	1.3	1.2	.0	1.1	•0	2.3	.0	94.1

TABLE 2

PERCENT PREQUENCY OF WEATHER OCCURRENCE BY HOUR

					100					-					
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST Hour	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00403 90409	1.0	.0	1.5	.0	.0		.0	1.5	1.0	.0	1.7	.0	1.5	.0	95.5
12615 18621	.0	.0	2.1	.0	.0		.0	2.1	3.2	.0	1.1	.0	3.2	.0	90.4
TOT PCT	.4	.0	1.7	.0	.0	.0	.0	1.7	1.2	.0	1.2	.0	2.2	.0	93.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KN	oTs)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	PCT	MEAN SPD	00	03	06	09	12	15	18	21
N NE	1.5	1.8	.1	.0		.0		3.4	5.4	2.0	:0	1.4	5.5	5.8	.0		2.0
E	.7	.9	.1			.0		1.7	5.4	.8	.0	1.4	2.9	2,3	.0	2.2	.0
SE	.9	4.7	2.9	.6	.0	.0		9.1	10.1	6.2	2.0	8.9	9.8	12.5	3.1	10.1	5.9
S	5.1	27.5	20.3	3.6	*	.0		36.6	10.6	62.4	70.0	60.3	57.3	52.1	82.8	49.9	59.9
SW	2.3	10.3	4.0	.4		.0		17.0	8.4	21.5	20.0	17.3	10.5	14.0	1.6	18.5	18.1
W	.9	1.9	. 1	.0	.0	.0		2.9	5.4	2.0	4.0	2.8	1.6	2.2	12.5	4.4	3.4
NW	. 8	1.0	.1	.0		.0		2.0	5.3	.8	.0	1.2	2,3	1,3	.0	3,4	3.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0		.0	.0	. 0
CALM	6.2							6.2	.0	3.9		6.0	7.8	7.6	.0		7.1
TOT OBS	491	1272	720	119	1	0	2603		8.9	459	25	452	307	445	16	644	255
TOT PCT	18.9	48.9	27.7	4.6		.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	0-6	7-16	SPEED 17-27	(KNUTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00	HDU1	12 15	18 21
N	2.6	.8		.0	.0		3,4	4.7	1.9	3.1	5.6	3.5
NE	.7	.4	.0	.0	.0		1.2	5.4	.4	1.3	2.0	1.1
	1.2	.4			.0		1.7	3.4	.7	2.0	2.2	1.6
SE	3.5	3.8	1.7		.0		9.1	10.1	6.0	9.3	12.2	8.9
5	18.1	28.3	9,3	.9	.0		56.6	10.6	62.8	59.2	53.2	52.7
SW	7.8	7.8	1.4	.1	.0		17.0	8.4	21.4	14.6	13.6	18.4
W	2.1	. 9	.0	.0	.0		2.9	5.4	2.1	2.3	2.5	4.1
NW	1.4	. 5		.0	.0		2.0	5.3	.7	1.6	1.3	3.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.2		•				6.2	.0	3.9	6.7	7.4	6.3
TOT OBS	1134	1117	326	26	0	2603		8.9	484	759	461	899
	42 4	42 0		1.0	0		100 0		100.0	100 0	100 0	100 0

	•	•	 ٠	٧

PERIOD: (PRIMARY) 1909-1978 (OVER-ALL) 1870-1978

TABLE 4

AREA 0029 CDQUIMBD 28.75 71.9W

PERCENTAGE	FREQUENCY	OF	WIND	SPEED	84	HOUR	(GMT)	

	HUUR	CALM	1-3	4-10		SPEED 22-33		48+	MEAN	PCT	TOTAL
	60300	3.9	6.4	46.5	36.0	7.0	.2	.0	10.5	100.0	484
	96609	6.7	11.2	47.6	28.6	5,9	.0	.0	9.3	100.0	759
	12615	7.4	15.0	51.2	23.6	2.8	.0	.0	8.0	100.0	461
and although about class con-	18621	6.3	16.1	50.1	24.5	3.0	.0	.0	8.2	100.0	899
The state of the s	TUT	161	330	1272	720	119	1	0	8.9		2603
A STATE OF THE PARTY OF THE PAR	DCT	4.2	12.7	48.0	27.7	4 4		0		100.0	-

TABLE

	TANCE 5											T	ABLE 6					
•	CT FREG			UIRFO		(EIGHTHS)							CEILIN NH <5/					
WND DIR	0=2	3-4	5-7	08500	TOTAL	COVER	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N	.2	.4	.5	.9		5.7	.0	.0	.0	.5	.1	.3	.2	.0	.0	.0	1.0	
NE	• •	• 1	.0	. 3		4.1	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.5	
E .	.2	. 2	• 0	. 2		4.0	.0	,0	.0	.0	.0	.0	.2	.0	.0	.0	.3	
SE	.6	.5	.6	3.5		6,5	.0	.0	.2	.9	1.7	.6		.1	.0	.4	1.2	
S	15.2	4.4	14.7	27.7		5.4	. 3	.0	.3	5.6	14.4	13.3	2.8	. 9	.0	.2	24.2	
SW	4.9	1.9	5.2	8.9		5,4		. 3	. 2	2.2	6.1	2.7	.5	.2	.0		8,6	
W	.9	.2	.5	1.2		4.8	.0	.0	. 3	.1	.3	.6	.0	.0	.0	.0	1.4	
NW	. 5	.0		. 2		3,5	.0	.0	.0	.0		.2	.0	.0	.0	.0	. 5	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0	.0	.5	2.6		5.0	.0	.0	.0	. 3	1.2	.7	.2	.0	.0	.0	2.8	
TOT DBS	152	46	133	276	607	5.4		• •	• •	59	145	111	23	7	.0		246	607
TOT PCT	25.0	7.6	21.9	45.5	100.0	•••	.5	,3	1,2	9.7	23.9	18.3	3.8	1.2	.0	.,	40.5	100.0

CUMULATIVE	PCT FREG	OF	SIMULTANEOUS	DECURRENCE

					VSBY (NF	1)			
C	FICING	• OR	- OR	· OR	- OR	- OR	- OR	• OR	= OR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
	>4500	.5	.6	.6	.6	.0	.6	.6	.6
OK	>5000	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
OR	>3500	5.1	5.5	5.6	5.6	5.6	5.6	5.6	5.6
DR	>2000	20.6	23.5	23.8	23.8	23.8	23.8	23.8	23.8
DR	>1000	40.8	46.8	47.7	47.7	47.7	47.7	47.7	47.7
	>600	48.4	55.9	57.6	57.6	57.0	57.6	57.6	57.6
DR	1300	48.9	57.1	58.7	58.7	58.7	58.7	38.7	58.7
OK	>150	49.0	57.2	59.2	59.2	59.2	59.2	59.2	59.2
OR	> 0	49.0	57.4	59.3	59.5	59.5	59.5	59.6	59.6
	TOTAL	305	357	369	370	370	370	371	371
TU	TAE NUMB	ER OF 08	51 62	2	P	CT FREQ	NH <5/81	40.4	

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3		5	6	7	8	DBSCD	TOTAL
15.0	7.3	6.2	6.4	4.8	4.0	6.2	10.2	39.7	.2	645

F	E	A	ш	Δ	R	٧

								768	RUAKT						
PER 100:	(PRIMARY) 1 (OVER-ALL) 1	909-1478 870-1978						TA	BLE B				ARE	28	0901MBD 71.9M
			PE	RCENT	PREC	OF WIN	O DIRE	CTION TH VAR	ATHE AY	LUES 1	E OR N	IBILI	CURRENC TY	E OF	
	VSBY		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL	
	€1/2	PCP NO PCP TOT #	.0	.0	.0	.0	.1	• •	.0	.0	.0	.0	.1		
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	1/2<1	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	1<2	PCP NO PCP TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	2<5	PCH NO PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.1	1,5		
		TOT \$.1	.0	.0	•	.6		:0	:0	.0	.1	1.9		
	5<10	PCP NO PCP TOT \$.0	.1	•1 •1	.5	8.2	2.6	:7	.0	.0	.3	12.8 13.5		
	10+	PCP NO PCP	1.2	.0	.0		52.7	18.4	2.1	.7	.0	3.8	84.2		
		TOT &	1.2	.5	,3	4,5	52.7	18.4	2,2	.7	.0	3,8	84,3	740	
		TOT PCT	1.6	. 8	. 4	5,0	62.1	22.1	3.1	.7	.0	4.2	100.0		

TABLE 9

VSBY	SPO	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(NM)	KTS								1,0,000	•			DBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.1		.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	.0	.1	•	.0	.0	.0	.0	•1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	•2	
	0-3	.0	.0	.0	.0	.1	.1	.1	.0	.0	.4	.6	
2<5	4-10	.1	.0	.0		.4	. 8	.1	.0	.0		1.3	
	11-21	.0	.0	.0	.0	.4	.1	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$	-1	.0	.0		. 9	.9	.1	.0	.0	.4	2.5	
	0-3	.3	.1	. 3	.1	1.0	.3	.1	.2	.0	.4	2.9	
5<10	4-10	.2	.1	.0	.3	3.6	2.7	. 6	.0	.0		7.5	
	11-21	.0	.0	.0	.1	4.6	1.0	.0	.0	.0		5.7	
	22+	.0	.0	.0	.0	.5	.1	.0	.0	.0		.5	
	TOT \$.5	.2	.3	.5	9.6	4.1	.7	.2	.0	.4	16.6	
	0-3	.7	•1	.1	.1	2.8	1.8	,5	.3	.0	4.9	11.3	
10+	4-10	. 8	.2	.5	2.0	22.9	10.5	1.5	.5	.0		38.9	
-	11-21	.1	•1	.0	1.5	20.1	5.0	.1		.0		26.9	
	224	.0	.0	.0	.1	3.1	. 4	.0	.0	.0		3.6	
	TOT \$	1.6	.4	.6	3.7	48.8	17.8	2.1	. 8	.0	4.9	80.7	
,	nT 0#5												977
1	TOT PET	2.2	.6	.9	4.2	59.6	22.8	2.9	1.0	.0	5.7	100.0	

c	D	i.	A	v

PERIOD: (PRIMARY) 1909-1978 (OVER-ALL) 1870-1978

TABLE 10

AREA 0029 COQUIMBO 28.75 71.9W

PERCENT	FREQUENCY				>4/8)	AND

HOUR (GMT)	000	150 299	300 599	600	1000	2000 3499	3500 4999	5000	6500	8000+	TOTAL	NH <5/8	TOTAL DB5
00603	.0	.6	.0	8.5	25.5	13.9	1.8	1.8	.0	.0	52.1	47.9	165
06609	. 8	. 8	•0	10.6	18.2	17.4	4.5	1.5	.0	1.5	55.3	44.7	132
12615	.6	.6	2.4	12.7	30.3	20.6	5.5	.0	.0	.6	73.3	26.7	165
18621	.6	.0	1.8	7.2	20.5	19.9	3.0	1.8	.0	.6	55.4	44.6	166
PCT	.5	.5	1.1	9.7	150	113	3.7	1.3	.0		372	256	628

TABLE 11

TABLE 12

		PERCENT	PREQUEN	CY VSBY	(MM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YQ	<600 <1	<1000	1000+	NH <5/8	TOTAL
00603	.0	.0	.0	2.9	17,1	80.0	240	00603	.0	.6	9.8	42,9	47.2	163
90360	.0	.0	.8	2.6	16,5	80.1	266	96809	. 8	1.5	14.4	41.7	43.9	132
12615	.0	.0	.0	3.9	17.2	79.0	233	12615	.6	3.7	18.4	55.8	25.8	163
18621	.4	.0	.0	2.0	14.8	82.8	256	18821	.6	2.4	11.0	45.7	43.3	164
TOT PCT	.1	.0	.2	28	163	801	995	TOT	.5	2.1	83	291 46.8	248	622

TABLE 13

TABLE 1

	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY 8	-				PERCE	NT FR	EQUENC	Y QF .	IND DI	RECTION	8 BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	60-89	90-100	DBS	FREQ	N	NE	Ε	SE	s	SW	W	NW	VAR	CALM
75/79	.0	.0	•0	. 5	.0	.6	. 0	.0	7	1.1	.0	.0	.0	^			•0		•	_
70/74	.0	.0	•0	.6	2.6	3.8	1,5	ž	57	8.6	.0	.2	.0	.5	4.4	1.9	1.1		.0	.0
65/69	.0	.0	.0	. 2	7.4	15.0		6,5	315	47.8	. 7	.2	.3	4.0	28.7	9.9	1.3	.,	.0	
60/64	.0		.0	.0		9.3	20.0	6.3	262	39.8	. 9	. 5	.0		25.2	9.3	1.3	.2	.0	2.6
55/59	.0	.0	.0	.0		. 5	1.2	1.1	18	2.7	.2	.0	.2		1.6	.6		.0	.0	.2
TOTAL	0	0	0	. 8	80	192	273	100		100.0		••	••	-		••		••	••	
PCT	.0	.0	.0	1.2	12.1	29.1	41.4	16.1		-	1.8	.9	. 5	5.5	60.5	22.0	3.6	. 8	.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR MAX 99% 95% 70% 5% 1% MIN MEAN TOTAL OBS
00603 80 72 70 65 60 58 36 65.0 490
06209 80 70 68 64 59 56 52 63.8 767
12615 75 71 69 65 60 57 55 64.8 460
18821 82 78 75 68 63 60 58 68.4 785
TOT 82 76 72 65 60 57 52 65.7 2502

TABLE 16

FEBRUARY

PERIOD: (PRIMARY) 1909=1978 (OVER-ALL) 1870=1978

0 0

TABLE 17

AREA 0029 COQUIMBD 28.75 71.9W

PCT	FREQ	OF	AIR	TEMPERAT VS	URE	(DEG	F) TER	AND	THE	DIFF	RENCE	OF FOG	(WITHOUT	PREC	IPITATION)
				AIR-SEA TMP DIF	5	5 60	7	61	65 68	69 72	73 76	77 80	TOT	FOG	FOG
				14/16		3 :	0	.0	:0	:0	:1	:0	1 2	:0	:13

		•0	64	08	72	76	80		-00	FOG
14/16	.0	:0	.0 .0 .4 .4 1.0 1.2	.0 .6 .6 .1	1.2 .6 .9 1.0 1.9 1.0	:1	.0	1 2	.00.00.00.00.00.00.00.00.00.00.00.00.00	.1
11/13	.0	.0	.0	.0	.1	.0	.1	2	.0	.3
9/10	.0	.0	.0	.6	.1	.1	.0	6	.0	.9
7/8	.0	.0	.4	.6	.1	.3	.1	11 14	.0	1.6
6	.0	.0	.4	.1	1.2	.3	.0	14	.0	2.1
5	.0	.0	1.0	.6	.0	. 3	.0	17	.0	2.5
4	.0	.0	1.2	1.0	.9	.0	.0	21	.0	3.1
3	.0	.4	1.6	2.2	1.0	.3	.0	38	.1	5.5
2	.0	1.0	3.0	3.7	1.9	. 3	.0	67	.0	10.0
1 0 -1 -2 -3 -4 -5 -6 -7/-8	.0	1.00	3.0	4.3	1.0	.1 .3 .3 .3 .0 .0 .0 .0 .0 .0 .0 .0 .0	010000000000000000000000000000000000000	17 21 38 67 65 91	.1	13.9 1.6 2.5 3.1 5.0 9.6 13.5 15.0 8.2 5.1 15.0 8.2 5.3 1.3 1.3 1.3 1.3 1.3
0	.0	.3	6.4	6.4	1.5	.0	.0	91	.1	13.5
-1	.0	1.0	5.5	7.0	1.5	.0	.0	101	.0	15.1
-2	.1	. 9	7.2	7.0	.7	. 1	.0	102 56 34	.3	15.0
-3	.0	.7	3.0	3.9	.1	.0	.0	56	.1	8.2
-4	.0	.1	3.3	1.3	. 3	.0	.0	34	.0	5.1
-5	.1	.0	1.9	1.2	.0	.0	.0	22 9 11	.0	3.3
-6	.0	.1	.6	.4	.1	.0	.0	9	.0	1.3
-7/-8	.1	.0	.4	1.0	.0	.0	.0	11	.0	1.6
TOTAL	3		270	.TC 170.25-C	70		3		6	662
		35		273		14	-	668		
PCT	.4	5,2	40.4	40.9	10.5	2.1	.4	100.0	. 9	99.1

PERIOD: (DVER-ALL) 1963-1978

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	. 6		.0	.0	.0	.0	.0	.0	.0
1-2	.9	.6	.0	.0	.0	.0	1,5		.0	.3	.0	.0		.0	.3
3-4	.0	.0	. 0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	. 3	.0		.0	. 3
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	-0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
1000	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
44	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
. 16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
C. C.	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20 22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0
23-25	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	- 0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0		.0	.0	.0	.0		.0	.0	.0	.0	:0	.0	0
TUT PCT	1.2	. 9	.0	.0	.0	.0	2.2		.0	.3	. 3	.0	.0	.0	.6
HGT				F	34-47	48+			1=3	4-10	11-21	SE 22-33	34-47	48+	
	1-3	4-10	11-21	22-33			PCT			.0		22-33	34-47		PCT
<1	.0	.0	.0	.0	.0	.0	.0		•0		.0	.0	.0	.0	.0
1-2	.3	.3	.0	.0	.0	.0	.6		•0	1.6	.2	.0	.0	.0	1.8
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.3	1.2	.1	.0	.0	1.0
	.0	.0	.0	.0	.0	.0	.0		.0	.1		.0	.0		1.3
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0		.0	:0	.2	.0	••	.0	.0
	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0		.0	.0	• •	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	• 0	.0	.0
20-22	.0	.0	.0	.0	.0		.0				.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	•0	.0		.0		•0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.3	.0	.0	.0	.0	,6		.0	2.0	2.3	.4	.0	.0	4.7

									FEBR	JARY							
PERIODI	COVE	R-ALL)	1963-1	978						- DNT				AREA	28.		
								TABLE	10	CUMII					20,	75 71	. 9#
				PC	T FREQ D	F WIND	SPEED	(KTS)	AND	DIREC	HOIT	VERSUS S	EA HEIG	HTS (FT)		
				5									• •				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.5	1.2	.0	.0	.0	.0	1.8				.3	.0	.0	.0	.0	.7	
1-2	.9	13.7	5.3	.0	.0	.0	19.8			.7	8.0		.0	.0	.0	9.8	
3-4	.2	5.1	13.1	.5	.0	.0	19.0			.1	2.1		.3	.0	.0	4.6	
7	.0	2.3	7.4	1.7	.0	.0	11.3			.0	.0		.0	.0	.0	2.9	
8-9	.0	.0	1.6	2.4	.0	.0	5.1			.0	.0	1.1	.2	.0	.0	.2	
10-11	.0	.2	1.0	.3	.0	.0	. 5			.0	:1		.0	.0	.0	.1	
12	.0	.2	. ,	.2	.0	.0				.0	.1		.1	.0	.0	, 3	
13-16	.0	.0	.0		.2	.0				.0	.0		.0	.1	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
33-40 41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	• 0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	,0			.0	.0		.0	.0	.0	.0	
61-70	.0	:0	.0	.0	.0	.0	.0			.0	:0		.0	• 0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	• 0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
TOT PCT	1.6	22.8	31.3	7.0	.2	.0	63,0			1,5	10.9	7.3	.6	000000000000000000000000000000000000000	.0	20.4	
HGT	1-3	4-10	11-21	×22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0		,	.0	.0		.0	0		.0	
1-2	.0	2.7	.0	.0	.0	.0	2,7			.0	.0		.0	:0	.0	.0	
3-4	.0	. 2	.0	.0	.0	.0	,2			.0	.3	.0	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
12	.0	.0	.0	•0	.0	.0	• 0			.0	.0	.0	.0	• • •	.0	.0	
17-19	.0	.0	:0	.0	.0	.0	• 0			.0	.0		.0	• 6	.0	.0	
20-22	.0	:0	.0	.0	.0	.0	.0			.0	.0		.0	• 0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	. 0			.0	.0	.0	.0	• 0	.0	.0	
26-32	.0	.0	- 0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000			.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	0			.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
61-70 71-86	.0	.0	.0	.0	.0	.0	0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	• • • •	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
TOT PCT	.0	2.9	.0	.0	.0	.0	2.9			.0	.3		.0	000000000000000000000000000000000000000	.0	.0	94.7
		2.7	•0	.0	•0	.0	2,7			••	.,	.0	•0	••	.0	.3	94.1

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.7	2,1	.0	.0	.0	.0	10.8	003
1-2	3.0	26.3	6.3	.0	.0	.0	35.6	
3-4	.3	8.1	15.3		.0	.0	24.6	
5-6	.0	2.7	11.1	1,5	.0	.0	15,3	
7	.3	.0	4.8		.0	.0	7.2	
8-9	.0	.0	1.8	2.4	.0	.0	4.2	
10-11	.0	. 3	.0	.3	.0	.0	.6	
12	.0	. 3	.6	.3	.0	.0	1.2	
13-16	.0	.0	.0	.3	.3	.0	. 6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	. 0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	,0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
turner erene	2000 W	Jane 1						334
TOT PCT	12.3	39.8	39.8	7,8	.3	.0	100.0	

PERIO	D: (DV	ER-ALL) 194	9-197	8				TABLE	19											
					PERCENT	FRE	PUENCY	OF WA	VE HEI	HT (FT) VS	HAVE P	ERIOD	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.7	5.4	7.2	6.8	1.5	1.0	.6	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125	4
6-7	.0	1.4	3.5	10.4	5.4	1.5	2.1	.6	.2	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	130	6
8-9	.0	1.2	1.4	6.2	6.8	3.5	4.3	1.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	7
10-11	.0	1.0	.4	1.5	1.9	2.5	1.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	7
12-13	.0	.0	.6	. 8	.2	.4	. 8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
>13	.0	.0	.0	.4	.4	.4	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	9
INDET	2.3	.6	1.4	1.7	1.0		2.1	.4		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	5
TOTAL	21	49	74	144	89	52	58	19	11	0	0	0	0	0	0	0	0	0	. 0	517	6
PCT	4.1	9.5	14.3	27.0	17.2	10.1	11.2	3.7	2.1	.0	.0	.0	.0	-0	.0	.0	.0	.0	.0	100.0	

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PERIOD:	(PRIMARY)	1909-1978

AREA 0029 COQUIMBO 28.55 72.1W

PERCENT FREQUENCY	OF	WEATHER	DCCURRENCE	RY	WIND	DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	6.1	.0	.0	.0	.0	6.1	.0	.0	.0	.0	6.1	.0	87.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.2	.0	.0	.0	77.8
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	98.2
S	.1	.0	1.1	.0	.0	.0	.0	1.2	.2	.3	1.4	.0	1.7	.0	95.2
SW	.3	.0	. 8	.0	.0	.0	.0	1.1	.6	.0	3.7	.0	3.4	.6	90.4
W	.0	.0	.0	.0	.0	.0	.0	.0	5.5	.0	11.0	.0	.0	.0	83.6
NW	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0	.0	.0	.0	.0	92.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	895	.0	1.0	.0	.0	.0	.0	1.1	.4	.2	2.0	•0	1.8	.1	94.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST Hour	THOR	FOG WO PCPN	FOG WO PCPN PAST HR		SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00603 06609 12615 18621	.0	.0	1.0 1.6 1.3	•0	.0	.0	.0	1.6 1.6 1.3	.6	.0	2.2 2.6 2.0 1.7	•0	.9 .0 2.0 3.9	.0	96.1 95.3 93.3 92.2
TOT PCT	907	.0	1.1	.0	•0	•0	•0	1.2	.4	.2	2.1	•0	1.8	.1	94.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KN	OTS)								HOUR	(GMT)			
HND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N NE	1:3	1.7	.1	:0	:	.0		3.1	4.8	1.1	4.0	2.7	4.1	3.2	8.6	4.2	2.5
E	1 .5	1.0	.1	.0	.0	.0		1.6	5.2	.5	.0	1.0	2.7	2,5	2.6	1.7	1.0
SE	/1.2	5.1	3.1	.5	.0	.0		10.0	9.8	7.1	6.0	10.5	11.7	10.7	16.4	10.1	9.8
S	6.1	27.5	21.2	4,3	• 1	.0		59,2	10.9	65.4	67.0	63.1	57.9	57,8	52.0	54.7	57.0
SW	2.0	9.2	3,5	.5	.0	.0		14.1	8.8	15.6	23.0	12.8	11.4	11.0	13.8	15.4	18.9
W	.7	1.2		.0	.0	.0		2.0	5.0	2.3	.0	1.0	1.9	2.0	4.6	2.7	1.3
NW	.9	1.3	.1	.0	.0	.0		2.3	4.9	1.8	.0	1.9	2,2	2.4	2.0	2.8	2.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0	5.0	.0	5.9	6.0	6.2	.0	5.7	5.6
TOT OBS	615	1511	901	169	4	0	3200		9.2	558	25	539	403	562	38	735	340
TOT PET	19.2	47.2	28.2	5.3	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

WND DIR	0-6	WIND 7=16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00	06 09	12 15	18 21
N NE	2.6	.5	.0	.0	:		3.1	4.8	1.0	3.3	3.6	3.7
	1.8		.0		.0		1.6		1.5	1.7	3.8	2.3
SE	1.1	5	0	.0	.0		10.0	5,2	7.0	11.0	2.5	1.5
35	3.4	5.1	1,3	:7				9.8			11.1	10.0
5	17.4	29.6	11.5		.1		59.2	10.9	65.5	60.9	57.5	55.4
SW	6.0	6.6	1.5	• 1	.0		14.1	8.8	16.0	12.2	11.2	16.5
W	1.4	.5	.0	.0	.0		2.0	5.0	2.2	1.4	2.1	2.2
NW	1.8	.5	.0	.0	.0		2.3	4.9	1.8	2.0	2.4	2.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.6						5.6	.0	4.8	5.9	5.8	5.7
TOT OBS	1317	1394	456	30	3	3200		9.2	583	942	600	1075
TOT PCT	41.2	43.6	14.3	.9	.1		100.0		100.0	100.0	100.0	100.0

	R		

PERIOD: (PRIMARY) 1909-1978 (DVER-ALL) 1874-1976 TABLE 4

AREA 0029 COQUIMBO 28.55 72.1W

DERCENTAGE	ERECHIENCY	0.5	HIND	SPERA	RV	HOUR	(CHT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HUUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	085
60300	4.8	9.9	46.3	32.1	6.7	.2	.0	10.3	100.0	583
06409	5.9	10.5	48.6	29.2	5.4	. 3	.0	9.5	100.0	942
12615	5.8	16.8	47.0	26.0	4.3	.0	.0	8.6	100.0	600
18421	5.7	16.5	46.6	26.3	4.9	.0	.0	8.7	100.0	1075
TOT	180	435	1511	901	169	4	0	9.2		3200
PCT	5.6	13.6	47.2	28.2	5.3	.1	.0		100.0	

	P	CT FRE			LOUD A		(EIGHTHS)							CEILIN NH <5/					
WND	DIR	0=2	3-4	5-7	085CD	DBS	CLOUD	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/B	DBS
N		.9	.1	.2	.5		4.1	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	1.2	
N	E	. 5	.3	.5	. 8		5.7	.0	.1	.0	. 3	. 5	.1	.0	.0	.0	.0	1.0	
E		.0	.0	.1	. 2		7.7	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	. 1	
S	3	. 3	. 8	1.8	3.8		6,6	.0	.0	. 5	. 8	2.1	1.4	.5	.0	.0	.0	1.5	
S		16.6	6.6	14.9	26.6		5,3	.4	.0	1.9	8.3	13.8	9.8	3.1	.7	.3	.0	26.5	
S	W	4.2	1.8	3.6			5,5	. 2	.0	.7	1.4	4.5	3.0	1.0	.0	.0	.0	6.8	
W		. 3	.0	.4	1.3		6.5	.0	.0	. 3	.2	.7	.4	.0	.0	.0	.0	.3	
N	W	. 2	.1	.2	1.2		6.6	.0	.0	.1	.1	. 5	.4	.0	. 1	.0	.0	.5	
VA	R	.0	.0	.0			. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CAL		.3	.6	.8	1.5		6.0	.0	.0	,3	.1	1.0	.3	.0	.0	.0	.1	1.4	
TOT		167	74	161	315	717			1	27	82	169	111	33	6	2	1	281	717
	PCT	23.3	10.3	22.5	43.9	100.0		.6	•1	3.8	11.4	23.6	15.5	4.6	. 8	.3	.1	39.2	100.0

TABLE 7

	OF SIMULT	

				VSBY (NM	•			
CEILING	• DR	• OR	• DR	• DR	- DR	• CR	• OR	. DR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
TR >5000	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
OR >3500	4.1	5.8	5.8	5.8	5.8	5.8	5.8	5.8
DK >2000	16.2	21.3	21.3	21.3	21.3	21.3	21.3	21.3
TR >1000	33.8	44.2	44.6	44.8	44.8	44.8	44.8	44.8
DR >600	43.1	55.5	56.2	56.2	56.2	56.2	56.2	56.2
OK >300	45.6	59.3	60.0	60.0	60.0	60.0	60.0	00.0
NK >150	45.6	59.3	60.2	60.2	60.2	60.2	60.2	60.2
7K > 0	45.9	59.8	60.9	60.9	60.9	60.9	60.9	60.9
TOTAL	334	435	443	443	443	443	443	443

TOTAL NUMBER OF OBS: 728 PCT FREQ NH (5/8: 39.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCO DBS 10.2 9.3 8.0 6.1 4.8 3.5 7.9 9.9 39.8 .5 774

							H	ARCH						
PERIOD: (PRIMARY) 1 (OVER-ALL) 1	909-1978 874-1978						TA	BLE 8				ARE	A 0029 CDQL 28.55	72.1W
		P	ERCENT	FREO PREC	OF WIN	D DIRE	CTION TH VAR	VS DCC	URRENC ALUES	E OR N	DN-OCC	URRENC	E OF	
VSBY (NM)		N	NE	E	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP NO PCP TOT \$.0	.0	.0	.0	.1 .1	.0	.0	.0	.0	.0	.1		
1/2<1	PCP NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	NO PCP	.0	.0	.0	.0	:0	.0	.0	.0	.0	.0	.0		
2<5	PCP ND PCP TOT %	.1	•1	.1 .1	.0	.1	.1 .0 .1	.1 .1	•0	.0	.0	.6		
5<10	PCP NO PCP TOT %	.0	.0	.2	1.9	12.8 13.3	:1 :1	.6	.5	.0	.4	21.1 21.7		
10+	PCP NO PCP TOT %	1.4	1.5 1.5	.0 .2	*	51.8 52.0	13.0 13.0	1.3 1.3	1.0	.0	2.6	77.1 77.3		

TOT DBS TOT PCT 1.8 1.8 .5 6.3 65.7 17.2 2.0 1.5 .0 3.0 100.0

SBY NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	DBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
(1/2	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0	.0	.1	.0	.0	.0	.0	.0	•1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
/2<1	4-10	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.2	.1	.0	.0	.0		.3	
	11-21	.0	•0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	•0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT &	.0	•0	•0	.0	.2	.1	.0	.0	.0	.0	.3	
	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
2<5	4-10	.1	• 1	.0	.1	. 3	.3	.1	.0	.0		. 9	
	11-21	.0	• 0	.1	.0	.1	.0	.0	.0	.0		.2	
	42+	.0	.0	.0	.0	• 1	.0	:0	.0	.0		•1	
	TOT %	.2	•1	• 1	.1	.5	.3	.1	.0	.0	.0	1.3	
	0-3	-1	.0	.0	.1	.7	.5	.1	.1	.0	1.2	2.7	
5<10	4-10	.2	.2	.2	1.1	6.0	2.1	.4	.3	.0		10.4	
	11-21	.0	.0	.0	.7	6.1	1.8	.0	.0	.0		8.6	
	22+	.0	•0	•0	.0	1.0	.2	.0	.0	.0		1.1	
	TOT %	.3	•2	•2	1.8	13.7	4.5	.5	.4	.0	1.2	22.8	
	0-3	.5	.5		.1	4.0	7	.2	.3	.0	3.1	9.5	
10+	4-10	1.0	1.2	.1	2.5	19.5	7.6	.9	.6	.0		33.3	
	11-21	.1		.0	1.5	21.3	4.2	.1	.1	.0		27.3	
	22+	.0	.0	.0	.2	4.9	.3	.0	.0	.0		5.4	
	TOT \$	1.6	1.8	.2	4.2	49.7	12.8	1.1	1.0	.0	3.1	75.5	
	OT 085												1152
T	OT PET	2.1	2.0	.4	6.1	64.1	17.6	1.7	1.5	.0	6.3	100.0	

	R	•	

PERIOD: (PRIMARY) 1909-1978 (OVER-ALL) 1874-1978

TABLE 10

AREA 0029 CDQUIMBU 28.55 72.1W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

	HOUR	00u 149	150 299	300 599	600 949	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
(00603	. 5	.5	3.7	12.0	20.9	8.9	4.2	1.0	.5	.0	52.4	47.6	191
(90300	1.3	.0	2.6	9.9	16.4	15.1	6.6	.7	.0	.0	52.6	47.4	152
1	12615	.5	.0	4.3	13.5	28.4	20.2	4.8	1.0	.5	.5	73.6	26.4	208
,	18621	. 5	.0	4.2	9.0	24.9	16.4	2.6	.5	.0	.0	58.2	41.8	189
	TOT	5	1	28	11.2	171	113	33	. 8	.3	.1	59.9	40,1	740

TABLE 11

TABLE 12

		PERCENT	FREQUENCY	VSBY	(NM)	BY HOUR		CUMULAT), BY HOUR	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.4	.0	.0	.4	19.0	80.3	274	00803	,5	4.8	16.9	36.0	47.1	189
06609	.0	.0	.0	1.0	24.3	74.7	288	06809	1.4	4.1	14.3	40.1	45.6	147
12615	.0	.0	.3	2.4	22.6	74.7	292	12615	.5	4.9	19.9	54.4	25.7	206
18621	.0	.0	.6	1.3	25,2	72.9	310	18821	,5	4.8	14.5	44.6	40.9	186
TOT	.1	.0	.3	15	266	879 75.5	1164	TOT	.7	4.7	121	322 44.2	285 39.1	728 100.0

				т	ABLE 1	3									TABL	E 14				
	PERC	ENT FR	EQUENC	Y UF R	ELATIV	E HUMI	DITY 81	TEMP	TOTAL	PCT		PERCE	NT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0		.0	.1	.0	.0	.0	1	6:2	.0	.0	.0	.0	.1	.0	.0	.0	.0	•0
70/74	.0	.0	.0	.4	2.4	2.8	. 5	.1	49	6.2	.0	.1	.1	. 8	3.9	.9	. 1	.0	.0	. 3
65/69	.0	.0	.0	. 3	4.0	13.4	15.0	3,5	287	36.2	1.0	.4	.3	3.0	22.5	6.2	. 8	. 8	.0	1.3
60/64	.0	.0			1.9		26.6	9.0	394	49.7	.7	1.1	. 6	2.6	33.2	8.3	. 8	.6	.0	1.9
55/59	.0				.1	. 5	3,3	3,9	62	7.8	.0	.3	.0	. 9	5.1	1.5	.0	.0	.0	.0
TOTAL	0				68	225	360	131		100.0		•-	• •							
PCT	- 0	. 0			8.6		45.4	16.5			1.7	1.9	. 0	7.3	64.9	17.0	1.6	1.4	.0	3.4

	MEANS,	EXTREM	ES AND	PERCE	TILES	OF TE	MP (DE	G F) B	Y HOUR		PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	BY HOUS	
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	HOUR (GHT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTA
00603	77	71	69	64	59	56	55	63.9	583	00803	.0	1.5	5.5	28.5	46.0	18.5	82	200
90300	77	69	67	03	57	56 55	53	62.5	948	90300	.0	1.1	2.8	27.1	50.8	18.2	83	181
12615	75	72	68	63	58	55	54	63.2	597	12815	.0	.5	8.2	26.9	45.7	18.7	82	219
18621	84	75	72	66	60	57	54	66.4	967	18621	.0	1.5	17.1	31.2	40.0	10.2	78	205
TOT	84	73	70	64	58	56	53	64.1	3095	TOT	0	9	69	229	366	132	81	805

PAGE 332

HARCH

PERIOD: (PRIMARY) 1909-1978

(OVER-ALL) 1874-1978

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)

VS AIR-SEA TEMPERATURE DIPPERENCE (DEG F)

73 76 AIR-SEA THP DIF 53 56 65 68 69 72 77 FOG 11/13 9/10 7/8 6 5 4 2 2 1 0 -1 -2 -3 -4 -5 -6 -7/-8 -9/-10 -11/-19 TOTAL 3 9 15 16 17 26 36 83 93 142 117 105 66 59 24 10 11 1 1 1 1 1 1 1 1 1 1 1 836 100.0 1.1 1.7 1.9 2.0 3.1 4.2 9.3 11.1 16.6 13.6 12.4 7.7 6.9 2.8 1.1 1.3 97.7

PERIOD: (OVER-ALL) 1963-1978

TABLE 18

PCT FREG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 23-25 26-32 23-25 26-32 34-48 49-60 61-70 71-86 87-57 TOT PCT 1-3 4-10 11-21 1-3 48+ HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 61-70 71-86 874 4-10 34-47 34-47

PER IOD:	IOVE	P-411)	1963-1	978					ARCH				AREA	0029	DQUIMB	n
PER 100.	, DAE	N-MLL,	1703-1					TABLE 16	(CONT)				-4	20.		.18
				PC	T FREQ (F WIND	SPEED	(KTS) AN	D DIREC	T10N V	ERSUS S	EA HEIG	HTS (FT)			
				s								SW				
HGT	1-3	4-10	11-21	22-53	34-47	46+	PCT		1-3	4-10	11-21	22-33	34-47	484	PCT	
<1	1.0	4.0	.0	.0	.0	.0	5.0		.5	1.7	.3	.0	.0	.0	2.5	
1-2	1.6	10.7	6.3	.0	.0	.0	18,5		.0	4.3	.9	.0	.0	.0	5.2	
3-4	.2	5.7	11.6	1.2	.0	.0	18.7		. 1	1.6	1.8	.1	.0	.0	3.5	
5-6	.0	1.0	10.4	2.8	.0	.0	14.2		. 3	2.0	1.0	.1	.0	.0	3.4	
7	.0	. 3	3.6	2.0	.0	.0	5,9		.0	.0	.7	.1	.0	.0	.7	
8-9	.0	.0	1.0	2.3	.0	.0	3,4		.0	.0	. 3	.0	.0	.0	.3	
10-11	.0	.0	.0	2.0	.0	.0	2.0		.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.5	.0	.0	.5		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
7-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
3-25	.0	. 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
6-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
3-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
9-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
1-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0	
T PCT	2.8	21,7	32.8	10.9	.0	•0	68,2		. 8	9.6	4,9	.3	.0	.0	15.6	
				_								NW				TOT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PC
<1	.0	.7	.0	.0	.0	.0	.7		.3	.3	.0	.0	.0	.0	.5	

				*							NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.3	.3	.0	.0	.0	.0	.5	
1-2	.2	. 2	.0	.0	.0	.0	. 4	.1	.0	.0	.0	.0	.0	. 1	
3-4	.0	.9	.0	.0	.0	.0	. 9	.0	.4	.0	.0	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.8	.0	.0	.0	.0	2.0	.4	.7	.0	.0	.0	.0	1.0	96.9

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FTS		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.2	8.3	.5	.0	.0	.0	15.0	003
1-2	2.1	17.6	8.3	.0	.0	.0	28.2	
3-4	.3	10.1	14.2	1.3	.0	.0	25.8	
5-6	.3	3,4	11.6	2.8	.0	.0	18.1	
7	.0	. 3	4.4		.0	.0	6.7	
8-9	.0	.0	1.3			.0	3.6	
10-11	.0	.0	.0		.0		2.1	
12	.0	.0	.0		.0	.0	.5	
13-16	.0	.0	.0				.0	
17-19	.0	.0	.0		.0	.0	.0	
20-22	.0	.0	.0				.0	
23-25	.0	.0	.0				.0	
26-32	.0	.0	.0		.0	.0	.0	
33-60	.0	.0	.0				.0	
41-48	.0	.0	.0		.0	.0	.0	
49-60	.0	.0	.0		.0	.0	.0	
61-70	.0	.0	.0			.0	.0	
71-86	.0	.0	.0			.0	.0	
87+	.0	.0	.0				.0	
				•			• •	387
TOT PCT	8.8	39.8	40.3	11.1	.0	.0	100.0	

PERI	00: (0)	ER-ALI) 194	9-197					TABLE	19											
					PERCENT	FRE	DUENCY	OF W/	NE HET	GHT (F	1 VS	HAVE P	ERIOO	(SECON	05)						
PER 100	<1	1-2	3-4	5-6	7	8-9	10=11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	2.6	7.2	7.9	4.0	2.2	.7	1.2		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	4
6-7	.0	1.9	6.3	8.4		3.6	1.9			.1	.0	.0	.0		.0	.0		.0	.0	200	6
6-7 8-9 10-11	.0	.3	1.6	2.9		3.8	2.2	1.0		.3	.0	.0	.0		.0	.0	.0	.0	.0	126	8
10-11	.0		3.4	1.6		1.2	.9			.3	.0	.0	.0		.0	.0		.0	.0	81	6
12-13	.0	.0	2.1	.6		.4	.1		3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
>13	.0	.0	.0	.9	.1	.0	.0	.(.0	.0	.0	.0		.0	.0	.0	.0	.0	9	7
INDET	2.4	.3	1.0	1.5	.9	.9	.6	. (.0	.0	.0	.0		.0	.0	.0	.0	.0	51	4
TOTAL		79	152	135	120	74	47	16		5	0	0	0	0	0	0	0	0	0	680	5
PCT	5.0	11.6	22.4	19.9	17.6	10.9	6.9	2.4		.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AREA 0029 COQUIMBO 28.65 72.0W

PERCENT FREQUENCY OF WEATHER DECURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE		
N	2.6	.0	3.9	.0	.0	.0	.0	6.5	.0	.0	2.6	.0	.0	.0	91.0
NE	.0	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	97.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8,2	91.8
SE	.0	.0	1.9	.0	.0		.0	1.9	.5	.0	.0	.0	1.9	.0	95.7
S	.0	.0	.7	.0	.0	.0	.0	.7	.7	.2	1.3	.0	1.0	.0	96.1
SW	. 8	.0	.6	.0	.0	.0	.0	1.4	. 8	.0	1.2	.0	2.3	.0	94.4
W	.0	.0	2.8	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	97.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	.0	.0		94.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	98.1
TOT PCT TOT UBS:	850	.0	.9	.0	.0	•0	.0	1.2	.6	.1	1.2	•1	1.1	.1	95.6

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

						EKCEAI	FREUUE	NC I UP WE	ATHER UCCUR	KENCE	BT HUU	K			
			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNDW	
00603 06609 12615 18621	.9	.0	.5 1.4 .5 1.3	.0	.0	.0	.0	1.4 1.4 1.3	1.4 .4	.0	1.4 .9 .5 3.1	.0	1.8	.0	95.0 96.7 95.5 93.9
TOT PCT TOT OBS:	.3 880	•0	.9	•0	•0	•0	•0	1.3	.6	.2	1.5	•1	1.0	.1	95.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3	4-10	D SPEE 11-21	22-33	34-47	48+	TOTAL QBS	PCT	MEAN SPO	00	03	06	HDUR 09	(GMT)	15	18	21
N NE	.7	3.3	1.0	.0	.0	.0		5.0	7.3	4.2	.0	4.8	6.3	4.8	8.3	3.0	5.3
E	.9	1.0	. 1	.0	.0	.0		2.0	4.8	1.7	7.1	1.0	2.9	3.2	1.7	1.6	1.3
SE	1.4	5.5	3.7	.6	.0	.0		11.3	10.3	9.6	23.2	10.6	12.9	11.9	7.5	12.1	9.7
S	5.2	24.1	19.9	3.9	.2	.0		53.4	10.9	55.7	47.3	57.2	51.2	52.9	38.3	51.9	51.5
SW	1.9	7.4	3,6	.5		.0		13.4	9.0	14.7	15.2	13.1	11.8	10.8	17.5	14.2	15.7
W	.6	1.1	.1	.0	.0	.0		1.9	5.6	1.4	.0	1.2	2.3	2.2	.0	2.2	2.5
NW	. 9	2.0	.6	.0	.0	.0		3.5	6.8	3.0	3,6	3.6	3.5	3.0	8.3	4.1	3.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	7.1							7.1	.0	7.4	3.6	7.1	5.7	8.0	13.3	5.8	8.8
TOT UBS	556	1316	834	145	5	0	2856		9.1	498	28	506	334	497	30	668	295
TOT PCT	19.5	46.1	29.2	5.1	. 2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

			•	

						-						
WNO DIR	0=6	#1ND 7=16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL DES	PCT	MEAN SPD	00	HDUR 06 09	12 15	18 21
N	2.6	2.3	•1	.0	:0		5.0	7.3	4.0	5.4	5.0	5.1
NE	1.7	. 8		.0	.0		2.5	5.9	2.3	2.1	3.3	2.6
	1.5	.4		.0	.0		2.0	4.8	1.9	1.8	3.1	1.5
SE	3.8	5.0	2.3	.0	.0		11,3	10,3	10.3	11.5	11.6	11.3
5	16.0	26.6	10.1	. 8	.0		53.4	10.9	55.2	54.8	52.0	51.8
SW	5.7	6.1	1.6		.0		13.4	9.0	14.7	12.6	11.1	14.6
W	1.4	.5		.0	.0		1.9	5.6	1.3	1.7	2.1	2.3
NW	2.1	1.3	.1	.0	.0		3,5	6.8	3.0	3.5	3.3	3.9
VAR	0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.1						7.1	.0	7.2	6.5	8.3	6.7
TOT GES	1195	1226	408	27	0	2850		9.1	526	840	527	963
TOT PCT	41.8	42.9	14.3	. 9	.0	•	100.0			100.0		

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PERIOD: (PRIMARY) 1910-1977 (OVER-ALL) 1872-1977

TABLE 4

AREA 0029 COQUIMBO 28,65 72.0W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

				WIND	SPEED (KNOTSI			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21		34-47	48+	MEAN	FREQ	OBS
00603	7.2	11.8	43.7	21.2	6.1	.0	.0	9.6	100.0	526
06609	6.5	10.4	46.1	31.6	5,2	.0	.0	9.5	100.0	840
12615	8.3	14.4	44.6	28.1	4.2	.4	.0	8.7	100.0	527
18621	6.7	13.4	48.2	26.5	4.9	.3	.0	8.8	100.0	963
TOT	202	354	1316	834	145	5	0	9.1		2856
DCT	7.1	12.4	46.1	20.2	5.1	. 2	- 0		100.0	-

TABLE 5

•	CT FRE			UIRFC		(EIGHTHS)							CEILIN NH <5/					
WND DIR	0=2	3-4	5-7	8 &	TOTAL	COVER	149	150	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N	.4	.3	.9	2,2		6.6	.0	.0	.0	. 3	1.5	1.0	.3	.0	.0	.0	.9	
NE	.2	.4	.7	.4		5.4	.0	.0	.1	.3	. 6		.0	.0	.0	.0	.7	
E	.3	.1	.3	.4		5,2	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.6	
SE	.6	.4	1.9	2.5		6,3	.0	.0		.7	1.9	.9	.4	.0	.0	.1	1.2	
S	15.1	5.9	15.4	26.0		5.4	.6	.0	.1	7.1	17.8	9.0	2.6	.9	.0	. 3	23.8	
SW	4.1	. 9	2.6	7.7		5.4	. 1	.0	.0	. 9	4.8	1.9	.7	.5	.0	. 2	5.8	
	. 8	.1	.3	1.2		5,5	.1	.1	.1	.3	.2	.0	. 1	.0	.1	.1	1.1	
NW	.2		.4			6.0	i	.0	.0	.1		.2	.1	.0		. 0	.4	
VAR	.0	.0	.0	• 0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8	.6	1.2	3.1		5,3	.0	.0	• •	.6	1.9	1.3	,	.0	.0	.0	2.5	
TOT OBS	157	60	158	294	669	5,5	• •		•:	70	198	97	30				247	669
TOT PCT								:	- 7									
TUT PET	23.5	9.0	23.6	43.9	100.0		1.0	.1	. 6	10.5	29,6	14.5	4.5	1,3	.1	. /	36.9	100.0

TABLE 7

CUMULATIVE PO						
OF CEILING	HEIGHT	(NH	>4/8	DIAM (AZBA	(NM)

						VSBY (NM				
	C	EILING	- DR	- DR	· GR	• OR	- OR	• DR	· OR	- OR
	(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
•	OR	>6500	.9	.9	.9	.9	.9	.9	.9	.9
	nR	>5000	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	OR	>3500	6.1	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	OR	>2000	18.3	20.5	20.6	20.6	20.6	20.6	20.6	20.6
	OK	>1000	43.8	48.7	49.7	49.7	49.7	49.7	49.7	49.7
	OR	>600	51.6	59.2	60.3	60.3	60.3	60.3	60.3	60.3
	nk	>300	52.0	59.7	60.9	60.9	60.9	60.9	60.9	60.9
		>150	52.2	59.9	61.0	61.0	61.0	61.0	61.0	61.0
	OK	> 0	52.6	60.6	1.50	62.1	62.1	62.1	62.1	62.1
		TOTAL	362	417	427	427	427	427	427	427

TOTAL NUMBER OF DBS: 688 PCT FREQ NH 45/8: 37.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD OBS 13.3 7.1 7.7 6.6 2.7 3.7 7.9 10.9 39.2 1.0 732

							A	PRIL						
PERIOD: (PRIMARY) (OVER-ALL)	1910-19	77					TA	BLE 8				AR		28.65 72.00
		P	ERCENT	FREO PREC	OF WIT	D DIRE	CTION TH VAR	AING A	URRENC ALUES	E OR N	IBILIT	URREN	E OF	
VSE (NM)	N	NE	E	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL	
<1/	PCP Z NB PC	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0 .1		
1/2	PCP <1 NO PCI TOT \$.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .1		
1<2	PCP NO PCI TOT *	.0	.0	.0	.0 .1 .1	.0 .1 .1	.0	.0	.0	.0	.0	.0		
2<5	PCP NO PCI TOT &	.1	.0	.0	:1	.2 .9 1.1	.3	.0	.0 .1	.0	.0	1.4		
5<1	PCP O NO PCI TOT %	·1 ·9 1.0	.1	• • • • • • • • • • • • • • • • • • • •	1,3	8.9 9.0	2.2 2.4	.1 .5	.4	.0	1.1	16.0		
10+	PCP NO PCI TOT %	3,2 3,4	1.9	1.1 1.1	4.6	49.3 49.4	12.5 12.5	1.5 1.5	1.8	.0	5.1 5.1	80.9 81.1		

TOT DUS TOT PCT 4.6 2.3 1.4 6.2 59.8 15.2 2.1 2.3 .0 6.1 100.0

							MOSE						
				PERCEN	T FREG	ARY INC	ND DIR	ECTION 5 OF V	VS WI	ND SPE	ED		
VSBY (NM)	SPO KTS	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTA
	0-3	.0	• 0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
<1/2	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	••	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT &	.0	.0	.0	•0	.2	.0	.0	.0	.0	.1	.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	-1	.0	.0	.0			.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	42+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$	-1	.0	.0	.0	•	•	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.1	. 2		.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	425	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	.1	• 2	•	.0	.0	.0	.0	.4	
	0-3			.0	.0	.0	.3	.0	.0	.0	.0	.4	
2<5	4-10	.2	.1	.0		.6	.3	.0	.1	.0		1.4	
	11-57	.2	.0	.0		.5		.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	-	.0	
	TOT \$.5	.2	.0	•	1.1	.6	.0	.1	.0	.0	2.4	
	0-3	.3	.1	.0	•	1.1	.5		.2	.0	1.1	3.3	
5<10	4-10	.6	.2	.3	.9	5.0	2.3	. *	•	.0		9.9	
	11-51	•	.0	.0	.2	3.9	.7	.7	•	.0		5.0	
	224	.0	.0	.0	.1	.7	2	.0	.0	.0		. 9	
	TOT &	1.0	.3	.3	1.3	10.6	3,6	.6	.3	.0	1.1	19.1	
	0-3	.2	2	.3	.4	3.5	1.0		6	.0	6.4	13.2	
10+	4-10	2.4	1.1	• 4	2.8	20.0	7.2	1.2	1.1	.0		36.3	
	11-21	.,	.3	.1	1.0	19.0	3,4	.0	.5	.0		24.6	
	55+	0	0	•0	.0	3.2		9	0	.0		3.6	
	TOT \$	2.9	1.6	.8	4.2	45.7	12.4	1.7	1.9	.0	6.4	77.7	
	nT 085				5.6		16.7	2.2	2.3				110
1	INT PET	4.5	2.1	1.1	7.0	57.8	10.	4.4	4.5	.0	7.0	100.0	

-		

PERIODI	(PRIMARY)	1910-1977
	(DVER-ALL)	1872-1977

AREA 0029 CDQUIMBD 28.65 72.0W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	.6	.0	1.2	9.8	27.2	11.6	4.6	. 6	.6	.0	56.1	43,9	173
06609	1.9	.0	.6	9.5	27.8	13.3	1.3	2.5	.0	,0	57.0	43.0	158
12615	.5	.5	.0	14.3	31.3	16.5	4.9	1.1	.0	1.6	70.9	29.1	182
18621	1.1	.0	.5	7.9	28.0	14.3	5.8	1.1	.0	1.1	59.8	40.2	189
TOT	7	1	•	73	201	98	30	9	1	5	429	273	702

TABLE 11

TABLE 12

		PERCENT	FREQUENCY	VSBY	(MM)	BY HOUR	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00603	.4	.0	.4	2.3	19,8	77.2	263
90360	.7	. 3	1.0	1.6	19,5	76.9	307
12615	.0	.4	.0	1.5	19,3	78.8	259
18621	.0	.0	.0	3.9	20.1	76.0	308
TOT	3	5	4	27	224	877	1137

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CELLING MCT (FEETAMM >4/8), BY MOUR

MOUR (550 CO (1000 10000 NM <5/8 TOTAL OBS (MR)

00403 .6 1.7 13.3 42.8 43.9 173

06409 1.9 2.6 13.0 45.5 41.6 154

12415 .6 1.1 15.5 55.8 28.7 181

18421 1.1 1.7 12.2 50.0 37.8 180

TOT 7 12 93 335 260 688
PCT 1.0 1.7 13.5 48.7 37.8 100.0

					MOLE 13					
	PERCE	NT FR	EQUENC	OF R	ELATIVE	HUMI	OITY BY	TEMP	TOTAL	РСТ
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREG
75/79	.0	.0	.0	.0	.3	.0	.0	.0	2	.3
70/74	.0	.0	.1	.0	.4	.3	.1	.0	7	
65/69	.0	.0	.0	.8	2.9	6.0	5.4	.6	125	15.7
60/64	.0	.0	.0	.4	3.5	20.4	26.2	5,8	447	56.2
55/59	.0	.0	.0	.0		4.9	13.2	7.5	209	26.3
50/54	.0	.0	.0	.0	.0	.0		. 5	5	.6
TOTAL	0	0	1	٠,	61	251	358	115	795	100.0
PCT	.0	.0	•1	1.1	7.7	31.6	45.0	14.5		

TABLE 14

	PERCE	NT FRE	EQUENC	Y OF W	IND DI	RECTION	4 8Y TE	EMP	
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.2		.0	.0	.0	.0
.0	.0	.1	.0	.6	. 1	.0	.0	.0	.0
1.3	.2	.3	1.1	7.6	1.9	.5	.6	.0	2.1
2.1	. 8	1.1	3.1	33.7	9.5	1.3	. 8	.0	3.8
1.1	. 9	- 1	1.0	16.2	3.8	. 3	.5	.0	2.3
.1	.1	.0	•1	• 1	.3	.0	.0	.0	.0
4.5	2.0	1.7	8.4	58.5	15.7	2.2	1.9	.0	8.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
60300	81	69	66	61	56	55	50	61.4	139
90300	70	67	65	60	56	54	48	60.3	850
12615	77	68	66	61	56	55	53	60.8	529
18621	77	72	69	63	58	56	53	63.5	901
TOT	81	70	68	61	56	55	48	61.6	2819

	PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00603	.0	.9	6.1	27.7	50.7	14.6	82	213
90300	.0	.5	5.2	26.7	46.1	21.5	84	191
12615	.0	.9	5.2	29.1	48.8	16.0	82	213
18821	.0	2.3	13.3	39.9	35.8	8.7	78	218
TOT	0	10	63	259	378	125	82	835

APRIL

PERIND: (PRIMARY) 1910-1977 (DVER-ALL) 1872-1977

TABLE 17

AREA 0029 COQUIMBO 28.65 72.0W

98,5

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F) AIR-SEA TMP DIF >3 56 57 61 65 64 68 69 72 73 76 77 80 FOG FOG 11/13 9/10 7/8 6 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -9/-10 11/-13 17/-19 4.8 8.1.9 4.0 4.9 6.8 10.3 17.4 13.8 19.8 5.0 4.4 2.4 6.3 17.6 3 6 6 8 15 34 39 54 85 141 196 80 40 61 18 19 52 1

798 100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT

				PC	T FREQ	DE MIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	?		.0	1:1	.0	.0	.0	.0	1.8
1-2	. 2	2.8	.6	.0	.0	.0	,,0		.4	1.1	. 3	.0	.0	.0	1.8
3-4	.0	. 3	. 3	.0	.0	.0	.6		.0	.3	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.2	.0	.0	.0	.0	. 2		.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	0 2 0 0 0 0 0 0 0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	. 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	,0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	,0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	,0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	,0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	•0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	.0	.0	.0	.0	.0	5.1		.0	1.0	.0	.0	000000000000000000000000000000000000000	.0	.0
TOT PET	•2	4.0	."	•0	.0	•0	3,1		.4	1.0	.3	.0	.0	.0	2.3
												SE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.3	.0	.0	.0	.0	. 6		.1	1.4	.1	.0	.0	.0	1.6
1-2	.5	.6	.0	.0	.0	.0	1.1		.4	2.0	.1	.0	.0	.0	2.5
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.7	1.0	.0	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0			.0	. 3	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
874	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	000000000000000	.0	.0	000000000000000000000000000000000000000	.0	.0
TOT PCT	. 8	.8	.0	•0	.0	.0	1,6		.5	4.4	1.4	.3	.0	.0	6.6

PERIODE	1045								APRIL						CDQUIMB	_
PERTUUE	COAF	M-ALL!	1963-	1971				TABLE	18 (CON	7)			AREA			.OW
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIR	ECTION	VERSUS	SEA HEIG	HTS (FT			
				\$								SW				
HGT <1	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10			34-47	48+		
1-2	1.5	4.0	.2	•0	.0	.0	5.7		•1	1.	0	.0	.0	.0		
3-4	.9	15.4	5.3	•0	.0	.0	21.6		.1	5.			.0	.0		
5-6	.0	4.9	12.6	.7	.0	.0	10.9		.0	1.	1.7	.1	.0	.0	2.3	
7	.0	:0	7.2	3.0		.0	10.4		.0	:			••	.0		
8-9	.0	1.1	2.0		:0	.0	2.5		.0	:	.2		••	.0	.2	
10-11	.0		1.1	.3		.0							.0		.,	
12	.0	.0	.3	.3	.0	.0	.6		.0	:			.0	.0	.0	
13-16	.0	:0	.0	.0	.0	.0	.0		.0	:			• 6	.0	.0	
17-19	.0	.0	.0	.2	:0	.0	:2		.0	:		:1	000000000000000000000000000000000000000	.0	.0	
20-22	.0	:0	.0	.0	.0	.0			.0	:	:		• 0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	• 0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	• 0		ŏ	:	:		• 0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	• 0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.,	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	:			• 0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.:			.0	.0	.0	
71-96	.0	.0	.0	.0	.0	.0	.0		, o				.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0				• 0	.0	.0	
TOT PCT	2.4	26.1	28.6	5.6	.6	.0	63,3		.2	9.0	3,9		.0000	.0	13.5	
HGT	1-3	4-10	11-21	W 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.3	.0	.0	.0	.0	, 3		.3				.0	.0		
1-2	.4	1.2	.0	.0	.0	.0	1,6		.1				. 0	.0		
3-4	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0		
7	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	. (0.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.6		.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	00000000		.0			.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	• 9		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	• 9			000000000000000000000000000000000000000	.0	.0	
TOT PCT	.4	1.5	.0	.0	.0	.0	1.9		.4			.0	.0	.0	1.3	95.5

	WIND	SPEED	(KT5)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.4	7,6	.3	.0	.0	.0	16.3	003
1-2	3.8	28.6	6.5	.0	.0	.0	39.0	
3-4	.3	7.6	15.0	. 8	.0	.0	23.7	
5-6	.0	1,6	8.4	3.0	.0	.0	13.1	
7	.0	.0	2.2		. 5	.0	3,8	
8-9	.0	1.6	1.1	.,3	.0	.0	3.0	
10-11	.0		*;;		.0	.0	3,8	
12	.0	.0		.0	.0	.0	.0	
13-16	.0			••	.0			
		.0	.0	.0		.0	.0	
17-19	.0	.0	.0	.3	.0	.0	,3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	,0	.0	.0	
71-86	.0	.0		.0	.0	.0	.0	
87+			.0				••	
0/*	.0	.0	.0	.0	.0	.0	.0	***
					.5			367
TOT PCT	12.5	47.1	33.8	6.0		.0	100.0	

PERIO	D: (DV	ER-ALL) 199	0-197	7				TABLE	19											
					PERCENT	FRE	QUENCY OF	WA	VE HE !	SHT (F	T) VS	WAVE P	ER 100	(SECON	DS)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10=11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
46	2.5	7.2	9.9	5.6	4.3	1.3	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	195	4
6-7	.0	1.8	6.4	11.8	5.1	3.1		. 5	1.5	.0	.0		.0		.0	.0	.0	.0	.0	193	6
8-9	.0	.0	1.3	3.8	4.8	2.5	1.3	.5	.7	.3	.0		.0		.0	.0	.0	.0	.0	92	7
10-11	.0	.2	. 8	2.1	2.6	1.6	1.0	. 7	.3	.0	.0		.0		.0	.0	.0	.0	.0	58	7
10-11	.0	.0	. 8	1.0	.3	. 5	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	16	5
>13	.0	.0	.0	.7	.3	1.0		.0	.0	.2	.0		.0		.0	.0	.0	.0	.0	13	
INDET	2.0	.5	1.0	1.2	.3	1.3		.3	.0	.0	.0		.0		.0	.0	.0	.0	.0	41	4
TOTAL	27	59	123	159	108	70	29	14	16	3	0			0	0	0	0	0	0	608	5
PCT	4.4	9.7	20.2	26.2		11.5	4.8	2.3	2.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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AREA 0029 COQUIMBO 28.55 72.0W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY I	NIND	DIRECTION
--	------	-----------

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRIN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG GUST BLWG SNOW	
N NE	:0	1.0	5.2	.0	.0	.0	.0	6.3	1.4	.0	2.8	.0	2.4		87.1
	.0	.6	.6	.0	.0		.0	1.3	.0	400		2.5	3.2		90.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	.0	•0	.0		100.0
SE	.0	.0	2.5	.0	.0	.0	.0	2.5	.0	.0	1.3	.0	3.8	.0	92.5
S	.0	.0	.3	.0	.0	.0	.0	.3	.5	1.0	2.9	.0	2.2		93.1
SW	.0	.0	.0	.0	.0		.0	.0	.0	.0	3.9	.0	. 9	.0	95.2
W	6.1	.0	3.0	.0	.0	.0	.0	9.1	.0	.0	12.1	•0	.0	.0	78.8
NW	.0	2.9	4.3	.0	.0	.0	.0	7.2	2.9	.0	2.9	• 0	.0	.0	87.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	2.6	.0	2.6		92.3
					.0	.0	.0	••	••	2.0	2.0		2.0	.0	72.3
TOT PCT	732	.3	1.1	.0	.0	•0	.0	1.5	.5	.7	3.0	•1	2.0	.0	92.1

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RATH	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00603 06609 12615 18621	.0	1.1 .0 .0	.5 .5 2.6	.0	.0	.0	.0	1.6 .5 1.1 2.6	1.6 0	2.2	2.2 2.2 4.7 3.1	.0 .0 .5	2.2 1.1 1.6 3.1	.0	93.0 93.5 90.5 91.3
TOT PCT	757	.3	1.1	.0	.0	.0	.0	1.5	.7	.7	3.0	•1	2.0	.0	92.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			22-33		48+	TOTAL	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21
N	2.2	5.2	1.7	.5			-	9.6	7.9	6.5	30.0	7.4	11.5		22.7	12.4	
NE	1.4	2.1		.1	.0	.0		4.2	6.5	3.8	6.7	3.9	3,8	5,2	9.1	12.4	2.4
E	.8	1.9	.2	.0	.0	.0		2.9	5.3	3.1	.0	1.6	3,1	4.4	9.1	2.4	2.9
SE	1.5	4.8	3.3	1.0	.0	.0		10.7	10.6	9.6	.0	12.5	11.9	12.9	5.7	9.4	8.4
S	3.9	19.5	18.2	4.1	.2	.0		45.9	11.8	48.0	33.3	47.4	46.7	45.9	39.8	42.1	49.2
SW	1.8	5.9	2,5	.4		.0		10.6	8.8	12.9	13.3	10.8	8,9	9,8	4.5	9.9	11.8
W	1.1	1.8	. 1	.1		.0		3.1	5.2	3,5	.0	1.6	1.9	2.4	4.5	4.4	4.1
NW	1.4	3.0	.9	.3	.1	.0		5.6	7.9	3.9	3.3	4.8	4.7	3.0	4.5	9.1	6.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.5							7.5	.0	8.7	13.3	10.0	7.5	7.0	.0	5.6	6.6
TOT OBS	640	1306	815	187	8	0	2956		9.3	503	15	522	359	501	22	732	302
TOT PCT	21.7	44.2	27.6	6.3	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

					1 110							
WNU DIR	0-6	7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL DES	PCT	MEAN SPD	00	06 09	12 15	18
N NE	5.2	3.5	:1	:2	:0		9.6	7.9	7.1	9.1	9.9	11.1
SE.	2.2	.7	.0	.0	.0		2.9	5.3	3.0	2.2	4.6	2.5
SE	3.9	4.3	2,2	1.7	.0		10.7	10.6	9.4	12.2	12.6	9.1
5	12.3	22.3	4.6	1.7	.0		45.9	11.6	47.5	47.1	45.6	44.2
SW	4.9	4.4	1,2	.1	.0		10.6	8.8	12.9	10.0	9.6	10.4
W	2.5	.5	.1		.0		3.1	5.2	3.4	1.7	2.5	4.3
NW	3.0	2.1	.4	.1	.0		5,6	7.9	3.9	4.8	3.1	8.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.5	404.000		-			7.5	.0	8.9	9.0	6.7	5.9
TOT DES	1302	1152	426	76	0	2956		9.3	518	881	523	1034
TOT PCT	44.0	39.0	14.4	2.6	.0		100.0		100.0	100.0	100.0	100.0

AREA 0029 COQUIMBO 28.55 72.0W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				WIND	SPEED (KNOTSI			PCT	TOTAL
HOUR	CALM	1-3	4-10		22-33		48+	MEAN	FREQ	DBS
00403	8.9	13.3	45.0	27.4	5.2	.2	.0	9.0	100.0	518
06409	9.0	14.4	43.2	26.9	6.4	.1	.0		100.0	881
12615	6.7	14.7	42.8	29.1	6.5	.2	.0	9.3	100.0	523
18621	5.9	14.1	45.3	27.5	6.8	. 5	.0	9.6	100.0	1034
TUT	221	419	1306	815	187	8	0	9.3		2956
PCT	7.5	14.2	44.2	27.6	6.3	.3	.0		100.0	

			Τ,	ABLE 5								TA	BLE 6					
•	CT FRE			D DIRFO		MEAN							CEILIN NH <5/					
WND DIR	0-2	3-4	5-7	8 & nBSC0	TOTAL	COVER	149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	1.4	.7	2.1	5.8		6.3	.0	.3	.1	.8	3.2	1.3	.0	.0	.2	.6	3.3	
NE	. 8	.5	.6	2.8		6.1	.0	.0		. 3	1.7	.6		.0	.0	.1	1.9	
€	.5	. 2	.7	1.3		6.0	.0	.2	.0	. 3	1.0	. 3	. 1	.0	.0	.0	.7	
SE	1.0	.5	1.8	1.0		5.6	.0	.0	. 2	. 5	1.7	.7	.1	.0	.0	.0	2.0	
S	16.0	5.7	13.1	18.2		4.9	.5	.3	. 3	5.2	14.7	4.2	1.4	. 3	.0	. 2	25.9	
SW	2.8	1.5	3.0	4.7		5,1		.0	. 3	1.4	3.6	1.1	7		.0	.0	4.8	
	.7	. 5	.3	. 8		4.4	.0	.0	. 2	. 3	.0	.1	.0	. 2	.0	.0	1.5	
NW	.4	1.1	1.6			5.8	.0	.0	. 2	.3	. 8	1.2	. 2	.0	.0	. 2	2.1	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	. 7	. 5	.7	3.6		6.3	.0	.0	.0	1.0	1.5	.3	. 8	. 2	.2	.0	1.4	
TOT OBS	144	65	141	241	591	5.3	3	5		00	167	58	20	4	,	6	258	591
TOT PCT	24.4	11.0	23.9	40.R	100.0	•	.5	. 8	1.4	10.2	28.3	9.8	3.4	.7	.3	1.0	43.7	100.0

TABLE 7

CUMULATIVE PCT FREQ	OF SIMULTANEOUS OCCURRENCE
	(NH >4/8) AND VSBY (NM)
	from ballat was took from

					VSBY (NM	1)			
C	FILING	• OR	- DR	- DR	- OR	· DR	- OR	· DR	- DR
(FEETI	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR	>6500	.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
TH	>5000	1.2	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR	>3500	4.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
CR	>2000	13.6	15.4	15.4	15.4	15.4	15.4	15.4	15.4
OR	>1000	36.7	43.0	43.3	43.3	43.5	43.5	43.5	43.5
OR	>600	43.3	52.7	53.4	53.4	53.0	53.6	53.6	53.6
DR	>300	44.0	53.4	54.7	54.7	54.9	54.9	54.9	54.9
CR	>150	44.1	53.7	55.4	55.5	55.7	55.7	55.7	55.7
OR	> 0	44.1	53.7	55.4	55.5	55.7	55.9	56.0	56.0
	TOTAL	267	325	335	336	337	338	339	339

TOTAL NUMBER OF OBSI 605 PCT FREQ NH <5/81 44.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD DBS 14.2 8.3 8.7 8.0 4.1 4.1 7.8 10.0 34.5 .5 641

									MAT						
PERIOD:	(PRIMARY) (DVER-ALL)	1909-1977 1855-1977						TA	BLE B				AREA	28.55	
			PI	RCENT	PREC	OF WIN	D DIRE	CTION TH VAR	VS DCC	URRENCE ALUES	E OR N	IBILIT	URRENCE	E OF	
	VSBY		N	NE		SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL	
	<1/2	PCP NO PCP TOT %	.0	.1	.0	.0	.4	.0	.0	.0	.0	.0	.5		
		PCP	.0	.0	.0	-	.0			.0	.0	.0			
	1/2€	TOT %	.0	.0	.0	.0	.0	.3	.1	•1	.0	.0	.5		
	1<2	PCP NO PCP TOT %	.1	.0	•0	.0	.0	.0	.0	.0	.0	.0	.1		
	2<5	PCP NO PCP	.3	.0	.0	.1	1.0	.0	.0	.0	.0	.0	1.9		
		TOT %	.4	.0	•1	.1	1.0		.1	•0	.0	.1	2.3		
	5<10	PCP NO PCP TOT %	2.2 2.4	2.1 2.1	• • •	.0	6.8 7.0	1.6	.6	.3	•0	1.9	16.2		
	10+	PCP NO PCP TOT *	6.8	3.1 3.2	1.7 1.7	4.9	44.8 44.8	9.1 9.1	1.4	4.0	.0	3.3 3.3	79.1 79.3		
		TOT nas	• •											728	

TABLE 9

VSBY (NM)	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(1411)	KTS 0-3	.0	.1	.0	•0	.1	.0	.0	.0	.0	.3	.5	004
(1/2	4-10	.0	.0	.1	.0	::	.1	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	::		.0	.0	.0		.2	
	224	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT #	.0	.1	.1	•0	.3	.1	.0	.0	.0	.3	. 9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1/2<1	4-10	.0	.0	.0	• 0	.0	.2	.1	.0	.0		.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT #	.0	.0	.0	.0	.0	.2	.1	.1	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
1<2	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	,0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	- 1	.0	.0	.0	.1	.0	.0	.1	.0	.1	.4	
	0-3	-1	.0	.1	.1	.0	.1	.0	.0	.0	.2	.6	
2<5	4-10	. 2	.0	.1	.0	. 3	.2	. 1	.0	.0		.9	
	11-21	.0	.0	.0	.0	.5	. 1	.0	.0	.0		,5	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	. 3	•0	.2	• 1	.9	.4	.1	.0	.0	.2	2.1	
	0-3	-4	.4	.0	•1	1.0	.5	.2	. 1	.0	2.3	4.8	
5<10	4-10	. 9	.6	.3	.3	3.7	1.1	• •	.3	.0		7.5	
	11-21	.5	.5	.0		2.5	.5	.0	.1	.0		4.1	
	455	.1	.2	.0		.4	.1	.0	.0	.0		. 8	
	TOT %	2.0	1.6	.3	.4	7.5	2.1	. 5	.4	.0	2.3	17.1	
	0-3	.7	.6	.2	.8	1.4	1.1	.6	.3	.0	4.3	10.0	
10+	4-10	4.7	1.9	1.3	2.2	17.0	6.1	1.2	2.4	.0		36.6	
	11-21	.9	• •	.2	1.2	20.5	3.4	.0	.6	.0		27.3	
	22+	1	.1	.0	.1	4.4	3	.0	.0	.0		5.1	
	TOT %	6.4	2.9	1.7	4.3	43.4	10.9	1.6	3.3	.0	4.3	79.0	
	nt ons							2.5	3.9	.0		100.0	98
7	DT PET	8.8	4.6	2.3	4.8	52.2	13.6						

PERIODI	(PRIMARY)	1909-1977

AREA 0029 CDQUIMBD 28.55 72.0W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	999	1999	3499	3500 4999	5000 6499	5500 7999	8000+	TOTAL	NH 45/8 ANY HGT	TOTAL
60300	.6	1.9	1.3	7.7	21.3	11.0	1.9	.6	.6	.0	47.1	52.9	155
90380	• 7	.7	.7	7.6	26.9	8.3	4.1	.7	.0	1.4	51.0	49.0	145
12615	.6	.6	2.5	13.4	34.4	8.3	4.5	1.3	.0	.6	66.2	33.8	157
18621	•0	.0	•6	10.6	27.3	11.8	3.1	.0	.6	1.9	55.9	44.1	161
TOT	3	5	1.3	61	170	61	21		2	1.0	341	277	618

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY V58Y	(MM)	BY HOUR		CUMULAT					VSBY (NM)), BY HOUR	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GHT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	• 0	.0	.4	2.2	15.1	82.3	232	00803	.0	3.3	11.9	35,8	52.3	151
90360	1.5	.4	1.1	1.8	17.5	77.8	275	06609	.7	2.8	11.3	41.8	46.8	141
12615	2.2	.9	.0	3.0	16,9	77.1	231	12615	,6	5.8	20.5	48,1	31.4	156
18621	.0	.4	.0	2.2	18,3	79.1	273	18821	.0	1.3	12.7	45.9	41.4	157
PCT	.9	.4	.\$	2.3	172	799	1011	TOT	,3	3.3	86 14.2	260	259	605 100.0

TABLE 13

	PERCI	NT FR	EQUENC	Y OF R	LATIVE	HUMI	ITY BY	TEMP	TOTAL	PCT		PERCI	ENT FR	EQUENC	Y OF W	IND DIE	RECTION	N BY TE	MP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NM	VAR	CALM
70/74	.0	.0	.0	.1	.7	,3	.0	.1	9	1.3	.0	.3	.0	.0	1.0	.0	•0	.0	.0	•0
65/69	.0	.0	.0	.0	1.3	2.4	1.7	. 7	43	6.2	.7	.3	.0	.4	2.6	.1	. 4	. 9	.0	.4
60/64	.0	.0	.0	.7	3.3	13.8	16.7	6.6	286	41.2	3.7	1.9	1.1	2.8	20.0	6.4	. 8	1.8	.0	2.6
55/59	.0	.0				11.5	25.1	10.1	336		5.1	1.9	. 9	1.9	28.1	5.6	.6	1.2	.0	3.2
50/54	.0	.0					1.3	1.2	20		.0	.0	. 1	- 1	1.8	.5	.1	.0	.0	.1
TOTAL	0	0	0		49	198	311	130	694	100.0			• •			•-	•		•••	•••
PCT	.0	.0	.0	. 9	7.1	28.5	44.8	18.7		•	9.5	4.4	2.2	5.2	53.7	12.6	2.1	4.0	.0	6.3

				TA	SLE 15									TABLE	16			
	MEANS,	EXTREME	S AND	PERCE	TILES	OF TER	P (DE	G F) B	♥ HOUR		PERC	ENT FRE	QUENCY	OF RELA	TIVE H	YTIOIMU	BY HOUR	
HOUR (GMT)	MAX	99%	95%	50%	5%	1*	MIN	MEAN	TOTAL OBS	HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	81 78	66	54	59	55	54	52	59.3	525	00803	.0	.0	4.5	28.5	46.4	20.7	83	179
		65	63	58	54		52	58.5	898	00809	.0	.6	4.5	22.3	50.8	21.8	83	179
12615		66	64	59	54	52	52	58.8	521	12615	.0	1.1	6.3	27.8	42.6	22.2	83	176
18821	78	71	67	61	56	55	50	61.6	978	18821	.0	1.6	14.0	33.3	39.2	11.8	79	186
TOT	81	69	65	59	55	53	50	39.7	2922	TOT	0		53	202	322	137	82	720

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PERIOD: (PR	1909-1977 1855-1977						TAB	LE 17				ARE	A 0029 COC	UIMBO 72.0W
	PCT FREQ OF	AII	TEM	PERAT	URE (C	EG F)	MPERA	THE O	CCURR	ENCE D	F FDG (WI	THOUT	PRECIPITAT	(NOI
	AIR-SEA TMP DIF	49 52	53 56	57 60		68	69 72	73 76	77 80	81	TOT	FDG	FOG	
	14/16	.0	.00	.0	.0	.1	.1	:0	.0	.0	2	.0	3	
	11/13	.0	.0	.1	. 3	. 1	.3		.0	.0	7		1.0	
	9/10	.0	.0	.1	,3	. 3	• •	.1	.0	.0	9	.1	1.2	
	7/8	.0	.0	.3	.1	-1	.0	.0	.0	.0	4	.0	.6	
	6	.0	.0	.6		. 1	.0	.0	• 1	.0	9	.0	1.3	
	,	.0	.0	.9	. 9	. 6	.1	.0	.0	.0	17	.1	2.3	
	•	.0	.1	1.2		.3	.0	.0	.0	.1	18	.1	2.5	
	3	.0	.0	1.9		. 3	.0	.0	.0	.0	22	.0	3.2	
	2	.0	.7	3.4	3,8	.6	.0	.1	.0	.0	59	.3	8,3	
	1	.0	1.0	2.5	2.8	.3	.0	.0	.0	.0	45	.7	5.9	
	0	.0	1.3	6.6		1.0	.0	.1	.0	.0	104	.1	15.1	
	-1	.1	3,1	8.2	5,4	1.0	.0	.0	.0	.0	122	.3	17.6	
	-2	.1	2.0	7.2	4.1	.1	. 3	.1	.0	.0	96	.6	13.5	
	-3	.0	2.0	4.5	2,6	. 0	.0	.0	.0	.0	67	. 1	9.7	
	-4	.0	.7	4.4	. 9	.0	.0	.0	.0	.0	41	.1	5.9	
	-5	.1	1.9	1.9	1.0	.0	.0	.0	.0	.0	34	.1	4.8	
	-6	.0	. 6	.3	.4	.0	.0	.0	.0	.0	9	.1	1.2	
	-7/-8	.0	.6	1.3	.1	.0	.0	.0	.0	.0	14	.1	1.9	
	-9/-10	.0	. 1	.1	.0	.0	.0	.0	.0	.0	2	.0	.3	
	-11/-13	.0	.0	.3	.0	.0	.0	.0	.0	.0	2	.0	.3	
	TOTAL	3	-	313		39		5		1	-	22	661	
			98		214		9		1		683			
	PCT	.4	14.3	45.8	31.3	5.7	1.3	.7	.1	.1	100.0	3.2	96.8	

PERIOD: (DVER-ALL) 1963-1977 TABLE 18 PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) 34-47 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-40 61-70 71-86 87+ 34-47 1-3 48+ 22-33 HGT <1
1-2
3-4
5-6
7
8-9
10-11
12
13-14
17-19
20-22
23-25
26-32
33-40
41-48
49-60
61-70
71-86
FOT PCT 34-47 1-3 48+ 1.3 48+

									MAY							
PERIOD:	(DVE	R-ALL)	1963-1	977				TABLE	18 (CONT)				AREA	28.5		. OW
				PC	T FREQ D	F WIND	SPEED	(KTS)	AND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT	,		
				5								22-33	34-47	48+		
1467	1-3	4-10	11-21	22-33	34-47	48+	PCT 3.3		1-3	4-10	11-21	22-33		.0	PCT	
<1	.8	2.5	٠.	.0	.0	.0	16.9		0	4.2	.0	.0	.0	.0	5.3	
1-2	.9	12.7	3.3	.0	.0	.0	17.1		1.1	1.9	:1	.0	:0	.0	2.9	
3-4 5-6	.3	1.6	6.4	.6	.0	.0	8.7		.0	.0	:4	.0	.0	.0	.4	
7	.0	.0	3.3	.0	.0	.0	3.3		.0	.3	.2	.0	0	.0	.5	
8-9	.0	.0	3.9	.3	.0	.0	1.2		.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.7	.0	.0	7.7		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	· o		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0000	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.0	22.5	24.7	1.8	.0	.0	51.0		1.4	7.5	1.3	.1	.0	.0	10.3	
												NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.7	.3	.0	.0	0	.0	1.0	
1-2	.3	.6	.0	.0	.0	.0	, 9		.0	1.4	1.0	.0	. 0	.0	2.4	
3-4	.0	.0	.0	.0	.0	.0	.0		.0	. 8	1.0	.0	.0	.0	1.8	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• •	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0000000000000	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0		.0	.0	•0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	:0		.0	.0	.0	.0	:0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	:0	.0	.0	.0	. 9		:0	2.5	2.3	.0	:0	.0	5.5	93.7
I PUT	. 3	.0	.0	.0		. 0										7301

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(PT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	12.6	5.8	.0	.0	.0	.0	18.4	
1-2	4.2	27.2	5.8	.0	.0	.0	37.2	
3-4	.3	12.6	14.9	.6	.0	.0	28.5	
5-6	.3	1.9	7.1	, 3	.0	.0	9.7	
7	.0	. 3	3.6	.0	.0	.0	3.9	
8-9	.0	.0	1.0	, 3	.0	.0	1.3	
10-11	.0	.0	.0	1.0		.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
The second second	2000							309
TOT PCT	17.5	47.9	22 4	2.3	. 0	. 0	100.0	

PERIO): (OV	ER-ALL	194	9-1977	,				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HE !	SHT (F1	r) vs	WAVE P	ERIOD	(SECON	120						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.5	5.6	8.6	3.8	1.3	. 8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	3
6-7	.2	1.9	5.2	9.2	5.0	3.3	.8	.4	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	5
8-9	.0	.2	3.8	8.2	4.2	3.8	1.3	1.0	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	126	7
10-11	.0	.2	.4	1.0	2.9	1.3	2.1	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	8
12-13	.0	.0	.2	.4	.6	.4	1.3	.0	.2	.0	.0		.0		.0	.0	.0	.0	.0	16	8
>13	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		6
INDET	3.3	4.4	3.3	2.1	.8	.6	.4	.2	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	78	3
TOTAL	26	64	112	132	77	53	33	14		2	0	0	0	Ö	0	0	0	0	0	522	5
PCT	5.0	12.3	21.5	25.3	14.8	10.2	6.3	2.7	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100,0	

D- 0

AREA 0029 COQUIMBO 28.55 72.2W

	-						
PERCENT	FREQUENCY	OF	WEATHER	DCCURRENCE	BY	WIND	DIRECTION

					-		The second of	100							
			F	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUS BLWG SNO	
N_	5.1 7.0	. 8	8.0	.0	.0	.0	.0	12.9	7.5	.0	1.8	•0	.0	.0	77.9
NE		.6	.6	.0	.0	.0	.0	8.2	1.8	.0	.6	.0	.0	.0	89.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	1.0	.0	.5	.0	.0	.0	.0	1.5	2.0	.0	4.4	.0	.0		92.2
S	.3	.2	1.5	.0	.0	.0	.0	1.8	.5	.0	1.6	•0	1.0		94.9
SW	.0	.0	2.1	.0	.0	.0	.0	2.1	.9	.0	1.7	.0	1.4		93.9
W	.0	.0	.0	.0	.0	.0	.0	0	3.5	.0		.0	3.5		
NW	6.3	.0	3.1	.0	.0	.0		6,3	3.1					.0	93.0
MAN	.0						.0			.0	3.1	.0	.0	.0	87.4
CALM	.0	.0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	•0	.0	.0	.0	.0	2.4	.0	.0	.0	97.6
TOT PCT	856	.2	2.1	.0	.0	.0	.0	3.4	1.6	.0	1.8	.0	.8	.1	92.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00603 06609 12615 18621	1.0 2.4 2.2 1.2	.5 .0 .4	1.0 3.4 3.1	.0	.0	.0	.0	2.5 5.3 4.9 2.4	1.0 1.4 3.1	.0	1.0 1.4 3.5 2.8	.0	.0 .5 .9	.0	95.4 91.3 87.6 92.1
TOT PCT TOT OBS:	1.7 884	.2	2.0	•0	.0	.0	.0	3.7	1.6	.0	2.3	.0	.8	.1	91.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			ED (KN 22-33	0TS) 34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	HOUR	(GMT)	15	18	21
N NE	2.6	6.8	3.5	1.1	,2	.0		14.6	10.1	14.7						14.2	
E	77.77		. 8	• 1	• 1	:		5.3	7.9	4.5		5.0			8.3	6.1	4.8
	. 8	1.2	.1	.0	.0	.0		2.1	5.2	1.5		1.4		3,0	2.1	2,5	. 9
SE	1.3	4.4	4.0	1.4	*	.0		11.1	11.7	8.5	16.7	10.7	13.0	13.7	8.3	10.3	11.6
S	3.3	15.2	17.0	4.9	. 2	.0		40.5	12.7	44.0	38.9	43.3	34.9	40.1	56.3	39.1	40.1
SW	1.3	4.4	3.1	.7		.0		9.5	10.4	11.6	11.1	10.0		6.9	10.4	10.4	7.6
W	.6	1.7	.5	.1	.0	.0		2,9	7.4	2,6		2,3			2.1	3.0	4.3
NW	1.2	3.8	1.5	.5	.1	.0		7.0	9.3	5.2		6.6		5.9	2.1	8.7	8.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0		.0	.0	.0	.0
CALM	6.9	•			• •	• •		6.9	.0	7.2		6.9		7.5	.0		6.6
TOT OBS	650	1355	1032	294	23	1	3355	•••	10.3	553	18	564	389		24		
TOT PCT	19.4					:	3375		10.5					558		903	346
TOT PUT	19.4	40.4	30,8	8,8	.7	•		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

-	24	

WNO DIR	0-6	WIND 7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	HDUF 06 09	12 15	18 21
N NE	3.1	5.7	2.3	:5	.1		14.6	10.1	14.7	14.9	14.2	14.5
	1.5	.6		.0	.0		2.1	5.2	1.5	2.0	2.9	2.0
SE	9.4	18.7	10.8	1.5	.0		40.5	11.7	43.8	39.9	13.5	10.6
SW	3.6	3.9	1.9	1			9.5	10.4	11.6	9.7	7.1	9.6
NW	1.7	9	.2		.0		2.9	7.4	2.8	2.7	2.3	3.3
VAR	3.1	3.1	.7	.2	.0		7.0	9.3	5.2	6.8	5.7	8.7
CALM	6.9						6.9	.0	7.2	7.6	7.2	6.1
TOT DBS	1307	1309	19,2	2.7	.1	3355	100.0	10,3	100.0	953	100.0	1249

PERCENTAGE	ERECHENCY	OF	WIND	SPEED	RV	HOUR	/ CHT

				MIND	SPEED (KNOTS?			PCT	TOTAL
HUUN	CALM	1-3	4-10	11-51	22-33	34-47	48+	MEAN	FREQ	DBS
00603	7.2	12.4	40.5	31.0	7.5	1.4	.0	10.5	100.0	571
90300	7.6	13.0	39.7	30.4	9.1	. 1	. 1	10.1	100.0	953
12415	7.2	10.5	40.7	33.0	8.2	.3	.0	10.3	100.0	582
18621	6.1	13.1	40.8	29.9	9.3	1.0	.0	10.4	100.0	1249
TOT	231	419	1355	1032	294	23	1	10.3		3355
PCT	6.9	12.5	40.4	30.8	8.8	.7			100.0	

TABLE

	TAPET												ABLE O					
,	CT FRE			CLUUD A		EIGHTHS)			PERCEN				CEILIN					
WND DIR	0-2	3-4	5-7	8 &	TOTAL	CLOUD COVER	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH 45/8	TOTAL
N	1.9	.6	1.5			6.3	.0	.3	.1	1.4	4.1	.9	1.0	.0	.0	.0	3.4	
NE	.6	.3	1.0	2.9		6.3	.0	•	.0	.9	1.9	.5	.2	.0	.0	.0	1.4	
E	. 1	.0	.6	.4		6,4	.0	.0	.0	.1	.4	.1	.1	.0	.0	.0	.3	
SE	.9	.5	1.8	2.1		5,8	.0	.0	.1	.4	1.5	.6	.3	.0	.0	.0	2.4	
S	16.7	9.8	12.6	14.4		4.5	.6	.1	1.9	4.9	9.6	4.2	2.2	. 1	.1	.3	29.5	
SH	4.1	1.9	2.7	3.2		4.4	.2		. 2	1.0	1.6	1.5	.3	.0		.1	6.8	
W	.9	. 8	.7	.7		4,2	.0	.0	.0	.3	.3	. 3	.1	.0	.0	.0	2.1	
NW	.6	.4	.7	1.6		5.9	.0	.0	.0	.6	.9	.2	.0	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.1	1.5	2.9		6.0	.0	.0	.1	. 3	2.8	.5	.0	.0	.0	.0	1.8	
TOT OBS	182	99	158	241	680	5,0	5	3	17	68	157	61	29	1	1	3	335	680
TOT PCT	26.8	14.6	23.2		100.0		.7	.4	2.5	10.0	23.1	9.0	4.3	.1	.1	.4	49.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING MEIGHT (NM >4/8) AND VSBY (NM)

				VSBY (NM	1			
CFICING	• OR	- OR	· OR	• DR	- OR	- OR	• OR	- OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
- DR >6500	.6	.6	.6	:6	.6	.6	.6	.6
■ OR >5000	.7	.7	:7	.7	:6	:7	.7	.7
■ OR >3500	4.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9
■ DR >2000	11.7	13.7	13.7	13.7	13.7	13,7	13.7	13.7
- DR >1000	30.9	36.7	37.0	37.0	37.1	37.1	37.1	37.1
. DR >600	38.6	46.0	46.8	46.8	47.0	47.0	47.0	47.0
■ DR >300	39.7	47.8	49.3	49.3	49.4	49.4	49.4	49.4
• OR >150	39.9	48.0	49.7	49.7	49.9	49.9	49.9	49.9
• 7R > 0	40.0	48.3	50.0	50.3	50.6	50.6	50.6	50.6
TOTAL	277	334	346	348	350	350	350	350

TOTAL NUMBER OF OBSI 692

PCT FREQ NH <5/81 49.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
15.5	7.0	9.9	9.1	7.5	3.9	8.6	9.3	28.7	.6	724

								JUNE					
PERIOD: (PRIMARY) (QVER-ALL)	1909-1977 1855-1977						TA	BLE 8				ARE	28,55 72.2W
		P	ERCENT	PREC	OF WIN	D DIRE	CTION TH VAR	A ING A	URRENC ALUES	E OR N	IBILI	CURRENC	E OF
VSBY		N	NE	E	SE	5	SW	W	NH	VAR	CALM	PCT	TOTAL
<1/2	PCP NO PCP TOT \$.0	.0	.0	.0	.0	.0	0	.1	.0	.0	.1	
1/26	PCP 1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT &	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	.5	
142	NO PCP	.2	:	.0	.0	.2	:	1	•1	.0	.0	.6	
2<5	PCP ND PCP TOT \$	1.0	.1	.0	.1	:3	.1	.2	•1 •1 •2	.0	.1	1.3	
5<10	PCP NO PCP TOT \$	2.5	1.2	•0 •1	.0	6.0 6.1	1.5 1.6	.0	.1	.0	.7	1.1 13.3 14.4	
10+	PCP ND PCP TOT \$	6.8	3.3 3.4	1.3	4.9	44.3	10.5	3.0	2.6	.0	4.0	1.1	
	TOT 085	11.4	5.0	1,5		51.9		3,3	3.7	.0		100.0	856

VSBY	SPU	N	NE	E	SE	S	SH	×	NW	VAR	CALM	PCT	TOTAL
(NM)	KTS												DBS
	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	11-21	.0	•0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	_	.0	
	TOT \$.0	•1	.0	.0	.0	.0	.0	.1	.0	.0	•2	
	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
1/2<1	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	.0	.1	.1	.1	.0	.0	.0	.1	.3	
	0-3	-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.1		.0	.0	.1				.0		.3	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT *	.1	•	.0	.0	.2				.0	.0	.5	
	0-3	.1		.0	.0	.1	.1	.0	.0	.0	.3	.5	
2<5	4-10	.2	.0	.0	.2	.1	.1	.1	.1	.0		.9	
	11-21	.3		.0		.4	.1	.0	.0	.0		.9	
	22+	.1	.0	.0		.3		.0	.0	.0		.4	
	TOT %	.7	•	.0	.2	.9	.3	.1	.1	.0	.3	2.7	
	0-3	.4	.3		.1	.5	.2	.0	.2	.0	1.6	3.4	
5<10	4-10	1.3	.7	.1	.2	1.9	.8	.1	.3	.0	•	5.4	
	11-21	1.4	. 4	.0	.1	3.1	.9	.0	.1	.0		6.0	
	22+	.4	• 1	.0	.1	.7		.0	.0	.0		1.4	
	TOT #	3.5	1.6	.1	.5	6.1	1.9	.1	.6	.0	1.6	16.1	
	0-3	.7	.4	.3	1.0	2.2	.6	.2	.4	.0	5.8	11.6	
10+	4-10	4.7	3.1	1.4	1.7	16.5	5.3	2.0	1.4	.0		36.0	
	11-21	2.7	• 7	.0	1.5	17.3	4.2	.7	.4	.0		27.6	
	22+	.1	.0	.0	.2	4.4	.5	.0	.0	.0		5.1	
	TOT \$	8.2	4.3	1.7	4.4	40.3	10.5	2.8	2.1	.0	5.8	80.2	
7	nr g85												1176
	OT PET	12.6	6.0	1.8	5.3	47.7	12.8	3.1	3.0	.0	7.7	100.0	

PERIOD:	(PRIMARY)	1909-1977
	INVER-ALL 1	1088 1079

AREA 0029 CDQUIMBD 28.55 72.2W

DEDCENT	FREQUENCY	DE	CETI ING	HETCHTC	FEEET. NH	34/81	AND
LEVCEM.	- KEROEUL!	25	CETCTUO	112.001.3	ILEE IN	,,,,,	-140

HOUR (GMT)	000	150 299	300 599	600	1000	2000	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	1.3	.0	1.9	8.8	16.9	7.5	3.8	.6	.0	.6	41.3	58.8	160
90300	.6	.0	1.9	7.6	21.7	10.2	4.5	.0	.0	.6	47.1	52.9	157
12615	.5	.5	2.7	12.4	29.7	10.8	3.8	.0	.5	.5	61.6	38.4	185
18621	.5	1.0	3.0	9.4	22.7	6.4	4.4	.0	.0	.0	47.3	52.7	203
TOT	. 5	3	17	68	162	61	29	1	1	3	350	355 50.4	705

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(MM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/DR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.0	.0	.4	2.3	13.4	83.9	261	00603	1.3	3.1	12.6	29.6	57.9	159
90360	.6		1.0	2.2	17.9	77.9	312	06609	.7	2.6	11.1	37.9	51.0	153
12615	.0	1.6	.4	4.0	17.2	76.6	274	12615	.6	4.4	17.1	45,9	37.0	181
18621	.3	.6	.8	2.5	14.8	81.0	357	18621	.5	4.5	15.6	33,2	51.3	199
TOT	3	.7	.7	33	191	961 79.8	1204	TOT	.7	3.8	99	254 36.7	339 49.0	100.0

TA	8	1	13

TABLE 1

				.,	TOPE T															
	PERCE								TOTAL	PET		PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	085	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CAL
70/74	.0	•0	•0	.0	.0	.0	.0	.1	.1	1	.0	.0	.0	.0	.0	• 1	.0	.0	.0	• 9
60/64	.0	.0	.0	.0	4.2	8.6	11.3	3.5	20	2.7	4.7	1.4	.0	2.0	11.6	3.7	1.1	1.5	.0	1.3
50/54	.0	.0			2.7	17.4	29.4	12.7	465	6.9	5.6	3.0	1.1	3.6	36.2	5.9	1.9	1.7	.0	3.6
PCT	.0	.0	.0		7.8	204	334 45.0	142	742	100.0	11.3	5.3	1.4	6.4	52.6	10.8	3.4	3.6	.0	5.3

TARLE 15

	MEANS,	EXTREMES	AND	PERCEN	TILES	OF TEM	P (DE	G F) B	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00603	75	66	63	58	53	51	49	57.9	575
06609	68	63	61	57	53	50	46	56.9	946
12615	72	65	62	57	53	50	48	57.3	577
18621	76	68	65	60	55	53	49	59.9	1195
TOT	76	67	64	58	53	51	46	58.2	3293

	PERC	ENT FRE	GUENCA	OF RELA	TIVE H	UMIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60300	.0	1.1	5.4	23.1	51.6	18.8	83	186
90300	.0	.6	5.7	25.6	48.9	19.3	83	176
12615	.0	.0	4.7	26.9	43.0	25.4	84	193
18821	.0	.5	14.6	33.5	38.3	13.1	80	206
TOT	0		19	209	344	145	83	761

JUNE

PERIOD: (PRIMARY) 1909-1977 (OVER-ALL) 1855-1977

TABLE 17

AREA 0029 COQUIMBO 28.55 72.2W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61	68	69 72	73 76	TOT	FOG	FOG
11/13	.0	.0	.0	.0	.1	:1	.0	2 2 5	:0	1.4 2.7
9/10	.0	.0	.1	.0	.0	.1	.0	2	.0	.3
7/8	.0	.0	.0	. 1	.5	.0	.0	5	.1	.5
5	.0	.0	.0	.1	.5	.0	.0	7	.0	.9
5	.0	.0	.6	.1 .6 1.0	.5	.00	.0	11	.0	1.4
4	.0	.5	.6	1.0	.5	.0	.0	21	.0	2.7
3	.1	.5	2.0	1.5	.4	.0	.1	37	.0	4.7
2	.1	1.0	3.7	2.2	.4	.0	.0	57	.0	7,3
1	.0	2.9	3.3	2.3	.4	.0	.0	70	.1	8.8
1 0 -1 -2 -3 -4 -5	.1	4.1	8.5	2.7	.4	.0	.0	120	.4	15.0
-1	.0	4.6	7.6	4.0	.4	.0	.0	129	.0	16.5
-2	.0	4.0	9.3	1.7	:0	.0	.0	117	. 4	14.6
-3	.0	3,3	4.2	1.2	.0	.0	.0	68	13	8.6
-4	.3	3.6	4.0	. 5	.0	.0	.0	65	. 3	8.1
-5	.0	1.5	3.1	.3	. 0	.0	.0	38	. 1	4.7
-6	.0	.,9		. 0	.0	.0	.0	11	.0	1.4
-7/-8	.1	, 9	1.0	. 0	.0	.0	.0	16	.0	2.0
-9/-10	.0		1	.0	.0	.0	.0		.0	.5
-11/-13	•0	i	.0	.0	• 0	.0	.0		• 0	• • •
TOTAL	.0	• 1	382		27	.0	•1		13	768
TOTAL	5		362		21		4	***	4.5	700
		222		142		.3		781		
PCT	.6	28.4	48.9	18.2	3.5	. 3	.1	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) 34-47 11-21 .1 .1 .1 .0 .0 .0 .0 .0 .0 .0 .0 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 223-25 26-32 23-40 41-48 49-40 61-70 71-86 87+ TOT PCT 1-3 34-47 1-3 1.9 48+ 34-47 HGT
<1
1-2
3-4
5-6
7
8-9
10-11
12
13-16
17-19
23-25
26-32
36-32
36-32
41-48
49-60
61-70
71-86
71-86 22~33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 11-21 .2 1.3 .8 .1 .0 .0 .0 .0 .0 .0 .0 .0 34-47 1-3 11-21 1-3 4-10

	10115								JUN	E				4054	0020	CDQUIMB	
PERIODI	CDAF	K-ALL)	1963-1	477				TABLE	18 (0	ONT)				***			. 2W
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND D	IRECT	TON	VERSUS	SEA HEIG	SHTS (FT)			
				s									22-33	34-67			
HGT	1-3	4-10	11-21	55-43	34-47	48+	PCT			-3	4-10			34-47	48+		
<1		2.9	3	.0	.0	.0	4.0			.0	1.3		:0	:0	.0	1.7	
1-2	1.6	9.6	10.3	.0	.0	.0	16.2			.0	2			:0	.0	1.5	
5-6		1.8		2.2	.0		14.8			.1	.7	2.5	.1			3.4	
7	.2	1.0	3.4		.2	.0	5,7			.0	.3			.1	.0	1.0	
8-9	.0	.0	2.6	2.1	.0	.0	5,5			.0	.0			• 6	.0	1.1	
10-11	.0	.0		6.6	.3	.0	1.1			.0	.0			.0	.0		
12	.0	.0	:3	.0	.0	.0	1.1			.0	.0			• 0	.0	:0	
13-16	.0	:0	.0	.3	.0	.0	3			.0	.0	:		.0	.0	:0	
17-19	.0	:0	.0	.0	.0	.0	.0			.0	.0			000000000000000000000000000000000000000	.0	.0	
20-22	.0	:0	.0	:0	.0	.0	0			.0	.0			.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.ŏ	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.o	
41-48	.0	.0	.0	.0		.0	.0			.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	o			.0	.0			.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	, o			.0	.0			:0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0			. 0	.0	.0	
TOT PET	2.6	20.0	30.2	8.3	. 5	.0	61.7			.1	2.9			:0	.0	9.0	
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1	-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.3	.0	.0	.0	.0	, 3			.0	.0			.0	.0		
1-2	.0	1,5	.6	.0	.0	.0	2,1			.1	1.6			.0	.0		
3-4	.0	.3	.0	.0	.0	.0	. 3			.0	.4			.0	.0	.7	
5-6	.0	.0	.6	.0	.0	.0	.6			.0	.0			.0	.0		
7	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
8-9	.0	.0	. 3	.0	.0	.0	. 3			.0	.0			.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	ō			.0	.0			.0	.0	.0	
13-16	.0	.0		.0	.0		- 0			.0	.0			000000000000000000000000000000000000000	.0		
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
20-22	.0	.0	.0	.0	.0	.0	ō			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
33-40	.0	.0	.0	.0	.0	.0	Ö			.0	.0			.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
87+ TOT PCT	.0	2.1	1.4	.0	.0	.0	.0			.0	.0			.0	.0	.0	

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	7.1	4.7	.3	.0	.0	.0	12.1	003
1-2	2.7	20.5	4.4	.0	.0	.0	27.7	
3-4	.0	7.7	14.2		.0	.0	22.7	
5-6	.3	2.5	14.5			.0	19.5	
7	.0	. 3	6.6			.0	9.3	
8-9	.0	.0	3.6			.0	7.1	
10-11	.0	.0	.,	.5	.3	.0	1.1	
12	.0	.0	.3	.0		.0	.,3	
13-16	.0	.0	.0	,3		.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0		.0	, o	
87+	.0	.0	.0	.0	.0	.0	.0	
	-		•••				•••	365
*** DET	10.1					•	100 0	

PERIO) (QV	ER-ALL	1 194	9-197	7				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HEL	GHT (F	7) VS	WAVE P	ERIGO	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.8	4.8	6.6	3.3	1.7	1.2	.7	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	125	4
6-7 8-9 10-11 12-13	.2	.7	4.8	9.1	7.0	3.1	2.8	. 8		.2	.5	.0	.0		.0	.0	.0	.0	.0	185	7
8-9	.0	.2	2.2	4.0	4.8	3.3	2.0	1.2		.3	.3	.0	.0		.0	.0	.0	.0	.0	126	8
10-11	.0	.2	2.5	1.5	1.0	2.8	2.2			.2	.0		.2		.0	.0	.0	.0	.0	73	
12-13	.0	.0	. 8	.2	.7	1.0	.5	1.3	1.7	.0	.0	.0	.2		.0	.0	.0	.0	.0	38	10
>13	.0	.0	.0	.3	.3	.5	.3	.2		.0	.0	.0	.0		.0	.0	.0	.0	.0	10	. 8
INDET	2.6	.5	2.5		.7	.2		.0		.0	.0	.0	.0		.0	.0	.0	.0	.0	47	3
TOTAL	28	38	117	116	97	73	54	28		5	3	0	2	. 0	0	0	. 0	0	0	604	6
PCT	4.6	6.3	19.4	19.2	16.1	12.1	8.9	4.6				.0	.3	.0	.0	.0	-0	.0	.0	100.0	

AREA 0029 COQUIMBO 28.5\$ 72.3W

		-	-	DECURRENCE		-	OTOCC TON
PERCENT	PREQUENCY	UP	WEATHER	UCCURRENCE	8 7	WIND	DIRECTION

				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	PAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		SIG WEA
N NE	.0	.0	1.7	.0	.0	.0	.0	1.7	8.2	1.7	6.1	.0	1.7	.0	80.5
NE	2.8	.0	2.8	.0	.0	.0	.0	5.6	.0	.0	9.8	•0	.0	.0	84.6
E	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	.0	• 0	.0	.0	94.7
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	2.2	.9	.0	.0	95.2
S	.2	.0	.0	.0	.0	.0	.0	.2	.2	.0	1.5	.1	.9	.4	96.8
SW	. 3	.0	.3	.0	.0	.0	.0	.5	1.0	.0	2.8	.0	.8	.0	94.9
W	.0	.0	7.5	.0	.0	.0	.0	7.5	.0	.0	10.0	.0	.0	.0	82.5
NW	5.9	.0	.0	.0	.0	.0	.0	5.9	7.4	.0	5.9	.0	.0	.0	80.9
VAR	.0	.0	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0
CALM	.0	.0	3.3	.0	.0		.0	3.3	.0	:0	3.3	.0	6.7	.0	86.7
TOT PCT	806	.0	.5	.0	.0	•0	.0	.9	1.1	.2	2.6	•1	1.0	.2	93.8

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

									make the later of			••				
				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA		
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA	
00&03 06&09 12&15 18&21	.5 .5 .5	.0	.0	.0	.0	.0	.0	.0 1.4 1.5	2.1 1.6 .9	.0	2.6 2.1 2.7 3.4	.0	1.5	.0 .5 .0	92.8 94.7 93.7 93.7	
TOT PCT	811	.0	.5	.0	.0	•0	.0	.9	1.1	.2	2.7	•1	1.0	.2	93.7	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3	4-10	11-21	ED (KN) 22-33	34-47	48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21
N NE	1.8	4.9	2.6	:7	.3	.0		10.2	10.0	8.5	6.7	10.0	9.5	10.1	9.7	12.2	10.0
E	.6	. 8	. 3	.2	.0	.0		1.9	9.1	1.6	.0	2.2	1.6	2,2	4.8	2.1	1.1
S E S	3.3	14.9	20.8	6.8	1.0	.1		47.0	13.8	50.0	13.3	50.4	13.1	13.3	7.3 58.1	12.0	47.2
SW	1.3	1.6	3.2	.6	.1	.0		3.3	7.5	12.3	15.0	9.9	4.6	3.0	7.3	10.4	3.5
NW	1.5	3.6	1.4	.2	. 1	.0		6.7	8.2	6,3	.0	5.0	6.4	4.3	.0	9.6	7.7
CALM	5.4	•0	.0	.0	.0	.0		5.4	.0	6.7	20.0	5.3	6.5	5.0	3.2	4.1	5.6
TOT OBS	16.8	1451	1935	11.0	1.7	.1	3960	100.0	11.5	100.0	100.0	100.0	100.0	100.0	100.0	1051	100.0

_			_	

MNI	D DIR	0=6	WIND 7⊕16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	HDU1 06 09	12 15	18 21
	N	4.7	3.8	1,3	.3	.2		10.2	10.0	8.3	9.8	10.1	11.5
	NE	2.1	1.2	.2	•1			3.6	7.5	2.7	3.1	4.5	3.9
		1.0	.5	.2	.2	.0		1.9	9.1	1.5	2.1	2.4	1.8
	SE.	3.1	4.3	3.1	1.2			11.7	13.8	10.0		13.0	11.6
	5	9.0	21.0	14.1	2.6	.2		47.0	13.9	49.9	48.9	49.7	42.9
	SW	3.5	4.6	1.8	.2			10.2	10.4	12.4	9.1	8.3	10.8
	W	1.8	1.3	.2	.0	.0		3,3	7.5	2.0	3.5	2.9	3.9
	NW	3.5	2.5	.7	.1			6.7	8.2	6.1	5.6	4.1	9.1
	VAR	.0		.0	.0	.0		.0	.0	.0	.0	.0	.0
	ALM	5.4		•••		•••		5,4	.0	7.0	5.8	4.9	4.5
	T 085	1349	1554	858	182	17	3960		11.5	668	1120	689	1483
	T PCT	34.1	39.2	21.7	4.6	.4	• • • • • • • • • • • • • • • • • • • •	100.0		100.0		100.0	

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1870-1977

TABLE 4

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PERCENTAGE	FREQUENCY	DF	WIND	SPEED	BY	HOUR	(GMT)	

		-								
HUUR	CALM	1-3	4-10	11-21		(KNOTS) 34-47	48+	MEAN	PCT	TOTAL
00603	7.0	10.3	32.9	35.6	12.9	1.0	.1	11.8	100.0	668
90300	5.8	11.7	34.8	34.8	10.9	1.8	5,	11.6	100.0	1150
12615	4.9	11.6	38.6	31.5	11.6	1.6	.1	11.4	100.0	689
18671	4.5	11.7	38.8	33.0	9.9	2.0	. 1	11.3	100.0	1483
707	213	454	1451	1345	435	67	5	11.5		3960
PCT	5.4	11.5	36,6	33.7	11.0	1.7	.1		100.0	

			T	ARLE 5								TA	BLE 6					
•	CT FRE		DTAL (LOUD A	TION	EIGHTHS) MEAN			PERCEN	TAGE P	REQUEN	CY OF	CEILIN	G HEIG	IND D	IRECTI	4/81 IN	
WND DIR	0-2	3-4	5-7	8 & BSCD	TOTAL	COVER	000 149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	1.1	.5	2.1			6.0	.1	.0	.2	:7	2.3	.8	.0	.1	.0	.2	2,3	
NE	.0	.4	. 8	2.7		6.4	:1	.0	.0	.7	2.0	.2	.2		.0	.0	1.4	
E	.6	.2	.8	.9		5,5	.0	.0	.0	.1	. 5	.2	.2	. 3	.0	.0	1.1	
SE	1.6	.9	3.0	2.1		5.0	.2	.0	. 2	. 8	1.4	1.5	. 5	.0	.0	.0	3.2	
S	18.6	8.4	12.7	19.9		4.7	.0	.1	1.3	7.3	13.3	4.6	1.6	.2	.0	.6	30.5	
54	4.0	1.4	1.6	5.0		4.9	.0		.3	1.0	3.3	. 5	.2	.0	.0	.2	6.4	
*	.2	.0	.1	. 9		6.9	.0	.0	.0	. 6	. 2	.0	.0	.0	.0	.2	.2	
NW	.4	.0	.5	. 9		5.7		.0	.1	.2	. 4	.4	.2	.0	.0	.0	. 7	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	
CALM	1.3	.8	.5	1.6		4,3	.0	.0	.2	. 2	1.1	.0	.2	. 2	.0	, 0	2.4	
TOT OBS	178	79	138	233	628	5.0	• • •	• • •	14	72	154	51	18		.0	7	303	628
TOT PCT	28.3	12.6	22.0	37.1	100.0		.5	• 2	2.2	11.5	24.5	8.1	2.9	, 8	•0	1.1	48.2	100.0

CUMULATIVE PCT FRED OF SIMULTANEOUS OCCURRENCE

				SBY (NM)				
ING .	OR	- DR	• DR	- OR	- OR	- OR	- OR	. OR
111	>10	>5	>2	>1	>1/2	>1/4	>5040	>0
500	.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
000	1.3	1.9	1.9	1.9	1.9			1.9
500	2.5	4.8	4.9	4.9	4.9			4.9
000	9.7	12.8			13.0			13.0
000 2	9.5							37.2
								48.8
00 3	8.0							51.0
								51.2
								51.7
		319	324	326	326	326	326	326
	5500 5500 5500 2000 1000 2 500 3 500 3	5500 .6 5500 1.3 5500 2.5 5000 9.7 1000 29.5 500 36.8 500 36.0 500 38.7	771 >10 >5 5500 .6 1.1 5500 1.3 1.9 5500 2.5 4.8 6000 9.7 12.8 6000 9.7 12.8 6000 36.8 48.0 600 36.8 48.0 600 38.0 49.9 550 38.2 30.1 0 38.7 50.6	271 > 10 > 5 > 2 5500			271 > 10 > 5 > 2 > 1 > 1/2 > 1/4 5500	

TABLE 7A PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD DBS 14.3 10.2 8.5 7.3 6.0 5.4 7.3 6.3 34.6 .0 683

0, 0

								N.	JULY					
PERIOD:	(PRIMARY) (DVER-ALL)	1908-1977 1870-1977						TA	8LE 8				ARE	A 0029 CDQUIMBD 28.55 72.3
			P	ERCENT	PREC I	FWIN	D DIRE	CTION TH VAR	ATME A	URRENCE ALUES	F VIS	ON-DC	URRENC TY	E OF
	VSBY		N	NE	F	SE	s	Sw		NW	VAR	CALM	PCT	TOTAL DBS
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	<1/2	NO PCP	.1	.1	.0	. c	.1		.1	.1	.0	.0	.5	
		TOT \$.1	. 1	.0	.0	.1	•	. 1	.1	.0	.0	.5	
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	1/24	1 NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
		TOT \$.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	1<2	NO PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
		TOT \$. 2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	2<5	NO PCP	.2	.0	.0	.1	. 6	.1	.0	.1	.0	.0	1.1	
		TOT \$. 2	.0	.0	:1	.6	.1	.0	.1	.0	.0	1.1	
		PCP	.1	.1	.0	.0	.0		.1	.1	.0	.1	.6	
	5<10	NO PCP	.7	. 8	.0	1.4	8.7	2.2	.2	.3	.0	.4	15.1	
		TOT #	. 9	1.0	.3	1.4	8,7	2.3	, 3	.4	.0	.5	15.8	
		PCH	.0	1	.0	.0	.1		.0	.0	.0	.0	.2	
	10+	NO PCP	5.8	3.3	2.0	5.6	50.0	9.8	. 8	1.5	.0	3.2	82.0	
		TOT %	5.8	3,4	2.0	5,6	50.1	9.8	, 8	1.5	.0	3.2	82.3	
		TOT 085												806
		TOT PCT	7.2	4.4	2,3	7.1	59.6	12.3	1.2	2.1	.0	3.7	100.0	

0 0

TABLE 9 PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY	SPD	N	NE	E	SE	S	SW	W	NH	VAR	CALM	PCT	TOTAL
(NM)	KTS												DBS
	0-3	.0	.0	.0	.0	.0	.0	. 1	.0	.0	.3	. 4	
<1/2	4-10	. 2		.0	• 0	.0	.0	.0		.0		.3	
	11-21	.0	.0	.0	.0	.1		.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT &	.2	•	• 0	•0	•1		.1		.0	.3	. 8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0			.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	.0	.0	•		.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10		.0	.0	.0	.0	.0	.0		.0		.1	
	11-21	.1	.0	.0	.0	.0	.0	. 0	.0	.0		.1	
	224	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.1	.0	.0	•0	.0	.0	.0		.0	.1	.3	
	0-3	.1	.0	.0	.0	.1		.0		.0	.2	.6	
2<5	4-10		.0	.0		.3	.2	.0		.0		.7	
	11-21	.1	.0	.0	.1	.3	.1	.0	.0	.0		.6	
	22+	.3	.0	.0	.0	.1	.0	.0	.0	:0		.1	
	TOT \$.3	.0	.0	.1	.8	.3	.0	-1	.0	.2	1.9	
	0-3	-1	.1	.1	.2	.6	.2	.2	.0	.0	1.0	2.4	
5<10	4-10	.9	.6	.2	.7	4.1	1.1	.0	.3	.0		7.9	
	11-21	.3		.1	.3	3.3	.7	. 2	.0	.0		5.0	
	22+	.1	.0	.0	.1	. 8	.3	.0		.0		1.2	
	TOT *	1.4	.8	.4	1.3	8.8	2.2	.3	.3	.0	1.0	16.5	
	0-3	3.5	.5	.7	.3	1.7	.5	.1	.2	.0	3.5	7.9	
10+	4-10	3.5	2.1	.9	2.3	15.5	5.3	.7	1.0	.0		31.1	
	11-21	1.5	.7	.0	2.2	24.3	3.7		.4	.0		32.9	
	22+	.2	.0	.0		7.5	.9	.0	.0	.0		8.6	
	TOT %	5.7	3.3	1.5	4.7	49.0	10.4	.8	1.5	.0	3.5	80.5	
1	ORS TH												1065
1	INT PET	7.6	4.1	1.9	6.2	58.8	13.1	1.2	2.0	.0	5.1	100.0	

.1	٠	٠	٠	

PERIOD: (PRIMARY) 1908-1977 (QVER-ALL) 1870-1977

TABLE 10

AREA 0029 CDQUIMBD 28.55 72.3W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	600	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL DBS
60300	. 6	.0	1.9	10.9	19.9	5.1	1.9	.0	.0	.0	40.4	59.6	156
90300	.7	.0	.7	8.8	27.2	4.4	2.2	1.5	.0	1.5	47.1	52.9	136
12615	.0	.6	3.4	12.4	29.2	9.6	3.4	1.7	.0	1.7	61.6	38,2	178
18621	.6	.0	2.3	12.6	19.5	11.5	4.0	.0	.0	1.1	51.7	48.3	174
TOT	3	1	14	. 73	154	51	19	5	0	. ?	327	317	644

TABLE 11

TABLE 12

								CUMULAT					VSBY (NM)	
		PERCENT	FREQUENC	Y VSBY	(MM)	BY HOUR			CEILIN	G HGT	(FEET)	NH >4/8	1, BY HOUR	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	DBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	. 8	.0	.0	1.2	16.9	81.1	243	60803	.7	2.7	14.8	27.5	57.7	149
06609	.7	.0	.4	2.1	14,8	82.0	284	06609	.7	1.5	11.9	37.0	51.1	135
12615	.8	.4	.0	3.0	16.7	79.2	264	12815	.0	4.5	18.6	44.1	37.3	177
18621	.7	.0	.7	1.8	17.6	79.2	279	18821	.6	2.9	16.5	36,5	47.1	170
PCT	.7	1	3	22	176	860	1070	TOT	3	3.0	99 15.7	231	301 47.7	631

....

TARIF 1

	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY B	Y TEMP	TOTAL	PCT		PERC	ENT FR	EQUEN	Y OF	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	s	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.1	.1	.0	.0	.0	2	.3	.0	.0	.0	•0	•2		.0	.0	.0	•0
65/69	.0		.0	.0		.4	. 3	.0	12	1.7	.0	.0	.0	.1	1.3	.1	.0	.1	.0	.0
60/64	.0	.0	.0	. 3	2.5	5.7	2,3	.6	82	11.3	.6	.3	.1	.9	7.6	1.1	.1	.1	.0	.6
55/59	.0				6.3	23.4	28.3	7.9	481	66.3	5.1	3,6	.9	4.1	38.0	9.1	.6	1.3	.0	3.6
50/54	.0		.0	.0	1.9	3.6	10.9	4.0	148	20.4	1.4	1.0	.2	1.3	12.3	2.4	.3	.4	.0	1.0
TOTAL	0				86	240	303	90	725	100.0				100000						•
PCT	.0	.0	.0	. 8	11.9	33.1	41.8	12.4			7.1	4.8	1.3	6.6	59.4	12.8	1.0	2.0	.0	5.1

TABLE 15

TABLE 1

	MEANS,	EXTREMES	AND	PERCEN	TILES	OF TEMP	(DEC	F) B	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00603	64	62	61	56	53	51	50	56.5	666
06609	64	61	60	56	52	50	47	55,8	1111
12615	70	65	61	56	52	51	48	56.3	676
18821	73	67	64	59	54	52	50	58.8	1416
TOT	73	66	62	57	53	51	47	57.1	3869

		EIII . WE	40EIIC.	"				
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	HEAN	TOTAL
00603	.0	.0	8.7	35.3	44.0	12.0	81	184
90300	.0	.0	12.4	29.4	42.9	15.3	82	170
12615	.0	.5	7.8	33.3	43.8	14.6	81	192
18621	.0	2.7	18.5	34.2	35.9	8.7	78	184
TOT	0	6	86	242	304	95	80	730

8' 3

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JULY

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1870-1977

TABLE 17

AREA 0029 COQUIMBO 28.55 72.3W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49 52	53 56	57 60	64	68	69 72	TOT	FOG	FOG
14/10	.0	.0	.0	.0	:1	.0	.1	2	.0	:3
11/13	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
9/10	.0	.0	.0	.1	.1	.1	.0	3	.0	.4
7/8	.0	.0	.0	.4	.1	.6	.1	9	.0	1.2
6	.0	.0	.0	:1	.0	:1	.0	4	.0	.6
5	.0	.0	.3	.6	. 8	.1	.0	13	.0	1.8
	.0	.0	.4	1.1	1.0	.4	.0	21	.0	1.8
3	.0	.0	.7	1.9	1.0	.4	.0	26	.0	3.6
2	.0	.0	1.1	2.3	1.4	.0	.0	35	.1	4.7
1	.0	.0	2.2	5,2	.4	.0	.0	57	- 1	7.7
0 -1 -2 -3	.0	.4	7.7	8.1	. 6	.0	.0	122	.7	16.1
-1	.0	.4	9.0	6.6	.6	.0	.0	122	.7	16.1
-2	.0	1,2	6.9	4.8	.0	.0	.0	94	.1	12.8
-3	.0	.6	8.3	3.7	.0	.0	.0	91	.7	11.8
-4	.0	1,4	4.3	1.8	.0	.0	.0	55	.1	11.8
-5	.1	.6	3.2	1.8	.0	.0	.0	41	.1	5.5
-6	.0	. 3	1.9	.1	.0	.0	.0	17	.1	2.2
-7/-8	.0	.3	. 8	.0	.0	.0	.0	8	.0	2.2
-9/-10	.0	.3	.1	.0	.0	.0	.0	3	.0	.4
-11/-13	.0	.0	.1	.0	.0	.0	.0	1	. 0	. 1
-14/-16	.0	.0	.1	.0	.0	.0	.0	i	.0	:1
TOTAL	1	••	342	••	46	•	2	•	21	705
	•	39	342	282		14	•	726	••	.05
PCT	.1	3.4	47.1	38.8	6.3	1.9	. 2	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1977

				PC	T FREQ C	F WIND	SPEED	(KTS)	AND	DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)		
				N									NE	-		
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.3			.5	1.4	.0	.0	.0	.0	1.9
1-2	.5	1.6	.0	.0	.0	.0	2.1			.0	1.2	.6	.0	.0	.0	1.8
3-4	.3	.6	.9	.0	.0	.0	1.7			.0	.1	.4	.0	.0	.0	.5
5-6	.0	.6	.6	.0	.0	.0	1.3			.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	. 3			.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
12 13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
87+	.0	3.8	.0	.0	.0	.0	6,6			.0	2.7	.0	.0	000000000000000000000000000000000000000	.0	.0
TOT PCT	1.0	3.8	1.8	•0	.0	.0	6,6			.5	2.7	1.0	.0	.0	.0	4.2
				E									55			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5			.4	. 6	.0	.0	.0	.0	1.0
1-2	.0	.2	.0	.0	.0	.0	. 2			.0	1.2	.1	.0	.0	.0	1.3
3-4	.0	. 2	.0	.0	.0	.0	2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			.0	. 8	.6	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0			.1	.1	.9	.1	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0			.0	.1	.7	.0	0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	•0	.0	.0	,0			.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			- 0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
TOT PCT	. 5	.5	.0	.0	.0	.0	. 9			. 5	2.8	2.5	.1	0	.0	5.8

PERIOD:	(OVER-ALL)	1963-1977

JULY TABLE 18 (CONT)

AREA 0029 COQUIMBO 28.55 72.3W

DET	EREA	DE	MIND	Speen	IVTEL	AND	DIRECTION	VERSUS	SEA	HETCHTE	/FT1	

				PC	T FREQ D	F WIND	SPEED	(KTS)	AND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)			
				s								5 W				
HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.5	2.5	.?	.0	.0	.0	4.2		. 4	1.3	.1	.0	.0	.0	1.8	
1-2	.3	6.9	5.8	.0	.0	.0	13.0		.1	3.3	1.1	.0	.0	.0	4.5	
3-4	.2	5.0	10.0	.6	.0	.0	15.8		.1	1.6	1.0	.1	.0	.0	2.8	
5-6	. 2	2.0	9.7	1.7	.0	.0	13.6		.0	.2	. 8	.1	.0	.0	1.1	
7	.0	.7	6.4	2.8	.0	.0	9.9		.0	.2	1.1	.1	.0	.0	1.3	
8-9	.0	.0	1.1	1.5	.0	.0	2.6		.0	.0	. 2	.1	.0	.0	. 2	
10-11	.0	.0	.2	1.4	.0	.0	1.7		.0	.0	.0	.2	.0	.0	.2	
12	.0	.0		.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.3	.7	.0	.0	1.0		.0	.0	.0	.2	.0	.0	. 2	
17-19	.0	.0	.0	.2	.6	.0	. 8		.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	٥٠	.0	,0	
26-32	.0	.0	.0	.3	.0	.0	. 3		.0	.0	.0	.0		.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0		.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	17.0	33.8	9.3	.6	.0	62.9		.6	6.6	4.3	. 8	.1	.0	12.3	
				W								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.0	.0	.0	.0	.0	. 3		.0	.1	.0	.0	.0	.0	. 1	
1-2	.2	.0	.3	.0	.0	.0	.6		. 2	1.4	.0	.0	.0	.0	1.6	
3-4	.0	. 3	.0	.0	.0	.0	. 3		.0	.3	.3	.0	.0	.0	.6	
5-6	.0	.2	.0	.0	.0	.0	. 2		.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.c	.0	.0	0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	,0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	• 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0000000000	.0	.0	
TOT PET	.6	.6	.3	•0	.0	.0	1.4		.2	1.8	. 3	.0	.0	.0	2.3	96.5

WIND	CDECK	IVTEL	VE	A 22	HEIGHT	(ET)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.2	6.9	.3	.0	.0	.0	15.4	003
1-2	1.3	15.7	7.8	.0	.0	.0	24.8	
3-4	.6	8,8	13.2	.6	.0	.0	23.2	
5-6	.3	3,1	11.9	1.9	.0	.0	17.2	
7	.0	. 9	8.2	2.8	.0	.0	11.9	
8-9	.0	.0	1.6	1.6	.0	.0	3.1	
10-11	.0	.0	.3	1.6	.0	.0	1.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.3	. 9	.0	.0	1.3	
17-19	.0	.0	.0	. 3	.6	.0	. 9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	,0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	, 3	.0	.0	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	·o	.0	.0	
0,0		••		••	••	••	••	319
	10 2			10 0				-47

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS:

(SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20=22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	2.6	7.2	10.3	6.7	2.1	1.0	.3	.0	. 5	.2	.0	.0	.0	.0	-0	.0	.0	.0	.0	180	4
6-7	.0	1.5	7.2	10.3	6.3	2.6	2.2	.5	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	6
8-9	.0	.3	1.5	2.1	5.5	3.6	2.2	.3	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	8
10-11	.0	.3	.3	1.4	2.1	1.5	.9	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	39	7
12-13	.0	.0	. 2	. 3	.9	1.2		.3	.0	.0	.0	.0	. 2	.0	.0	.0	.0	.0	.0	27	9
>13	.0	.0	.0	.7	1.0	. 3	.7	.2	. 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	8
INDET	1.0	.7	.3	.7	1.0	.9	.3	.0	. 2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	6
TOTAL	21	59	116	129	110	65	48	8	22	5	1	0	1	0	0	0	0	0	0	585	6
PCT	3.6	10.1	19.8	22.1	18.8	11.1	8.2	1.4	3.8	. 9	. 2	-0	. 2	- 0	- 0	- 0	. 0	- 0	- 0	100.0	

AUGUST

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1871-1977

TABLE 1

AREA 0029 COQUIMBD 28,55 72.3W

PEKC	ENT	PREQUENCY	UF	WEATHER	DCCURRENCE	BY	MIND	DIRECTION

			P	RECIPI	TATEO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRIN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SND	
N NE	:0	3.3	1.7	.0	.0	.0	.0	5.0	3.3	.0	5.8	.0	1.3		84.6
	.0	.0	.0	.0	.0	.0	.0	.0	4.4	.0	.0	• 0	.0	.0	95.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E SE	:0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3		95.7
S	.0	.2	.0	.0	.0	.0	.0	.2	.7	.2	. 9	.0	1.7		96.4
SW	.8	.2	. 8	.0	.0	.0	.0	1.9	.0	.0	2.5	.0	.4	.0	95.2
W	4.5	0.1	4.5	.0	.0	.0	.0	10.6	6.1	.0	.0	.0	.0		83.3
NW	. 9	.0	. 9	.0	.0	.0	.0	.9	3.7	.0	1.9	.0	8.3	.0	85.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0		.0
CALM	.0	2.8	.0	.0	.0	.0	.0	2.8	2.8	:0	.0	.0	2.8	:0	91.7
TOT PCT TOT OBS:	762	.7	.4	.0	.0	•0	.0	1.2	1.2	.1	1.4	•0	1.7	.0	94.4

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		ND SIG WEA
00603 06609 12615 18621	.0	1.0	1.0	.0	.0	.0	.0	1.1 2.1 1.0 .5	1.0 2.0 1.0	.0	1.0 1.5 2.6	•0	1.6 1.6 1.0 2.6	.0	96.2 93.8 94.6 93.3
TOT PCT	773	.6	.4	.0	.0	.0	.0	1.2	1.2	.1	1.4	•0	1.7	.0	94.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			22-33		48+	TOTAL	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21
							003	LVER	3-0								
N	1.6	4.3	1.8	.5		.0		8.1	8.9	6,5	21.4	5.7	7.7	8.1	2.1	11.0	7.6
NE	. 7	1.3	.3		.0	.0		2.4	6.6	1.7	.0	1.6	2.1	3,5	8.3	3.0	1.3
E	.5	1.0	.3	.1	.0	.0		1.8	6.9	1.9	.0	1.3	2.1	2.4	.0		1.2
SE	.7	3.1	4.8		.2	.0		10.7	14.3	8.8	1.8	10.0	14.4	11.9	4.2	9.5	11.8
S	2.0	14.5	23.3		1.3	.1		49.4	14.9	53.1	53.6	52.8	49.2	51.4	67.7	43.6	48.5
SW	1.5	6,3	4.6		.2	.0		13.7	11.1	15.1	8,9	13.8	11.9	12.3	15.6	13.7	16.4
W	.9	1.9	. 5	*	' '	.0		3.4	7.1	2.9	.0	3.5	2.1	2.0	.0	4.6	5.2
NW	1.6	3.1	1.1	.2		.0		6.0	7.3	4.9	14.3	4.9	5,8	4.5	2.1	8.7	5.2
VAR	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5	• •	••	••	•0	••		4.5	.0	5,0		6.4	4.8	3.9	.0	4.2	
TOT OBS	492	1238	1282	419	61	2	3494	7.00	12.1	558	14	591	437	569	24	938	363
TOT PCT	14.1	35.4	36.7		1.7	.1	3474	100.0						100.0			

TABLE 3A

WNO DIR	0=6	WIND 7-16	SPEED 17-27	(KNOTS) 28-40	414	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18 21
N	3.9	3.2	.7	.2			8.1	8.9	6.9	6.5	7.9	10.0
NE	1.5	. 8	.1		.0		2.4	6.6	1.7	1.8	3.7	2.6
	1.2	.4	.1		.0		1.8	6.9	1.9	1.6	2.3	1.6
SE	1.8	4.8	3,3	.7	.1		10.7	14.3	8.7	11.9	11.6	10.1
5	7.8	20.9	16,8	3.5	.4		49.4	14.9	53.1	51.3	52.1	45.0
SK	4.5	6.1	2.8	.4			13.7	11.1	14.9	13.0	12.4	14.4
W	2.1	1.1	.2				3.4	7.1	2.8	2.9	1.9	4.7
Mid	3.5	2.1	. 4				6.0	7.3	5.2	5.3	4.4	7.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	4.9	5.7	3.7	3.7
TOT OBS	1074	1380	850	172	18	3494		12.1	572	1028	593	1301
TOT PET	30.7	30 .	24 3	4.0	. 5		100.0	(CONS.)	100.0	100.0		

٠.	-		T	

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1871-1977

AREA 0029 COQUIMBO 28.55 72.3W

	FREQUENCY		4110	-	RV	HOUR	(GMT)	
PERCENTAGE	FREQUENCY	0.	MIND	SHEED		HUUK	(04)	

HOUR	CALM	1-3	4-10	11-51	SPEED (KNOTS) 34-47	48+	MEAN	PCT	TOTAL
00609 06609 12615 18621 TuT	4.9 5.7 3.7 3.7 157	8.6 9.0 9.1 10.7 335	35.8 35.2 35.3 1238	37.1 36.4 37.8 36.3 1282 36.7	11.5 11.1 12.5 12.7 419 12.0	2.6 1.8 1.7 1.4 61	.0	12.0	100.0 100.0 100.0 100.0	572 1028 593 1301 3494

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7481 E 6

- DR

	CT FRE	0 F T	DTAL C	LOUD A	MOUNT (EIGHTHS)		,	PERCEN	TAGE F	REQUEN	CY OF	CEILING	G HEIG B BY W	HTS (F	RECTIO	4/8) N	
WND DIR	0=2	3-4	5-7	B & DBSCD	TOTAL	MEAN CLDUD COVER	000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999		NH <5/B	DES
N NE E SE S W N N N N N N N N N N N N N N N N N N	1.3 .7 .2 1.1 21.2 5.3 .2 .9 .0 .5 180 31.5	1.2 .0 .0 .3 8.4 1.3 .5 .4 .0 .9 74	.9 .2 .1 .6 13.8 3.4 .7 1.2 .0 1.9 131 22.9	1.3 .0 2.8 167	572 100-0		.0 .0 .0 .2 .0 .1	.0 .0 .0 .1 *	0 1 9 0 0 0 0 7 1.2	.5 .4 .1 .4 6.6 1.0 .6 .7 61	2.2 .9 .4 1.0 15.9 4.2 .4 2.4 .0 1.6 160 28.0	.5 .0 .0 .2 1.9 .9 .2 .4 .0 .2 244	.1 .0 .0 1.0 .4 .0 .2 .0 .3 12 2.1	.00000000000000000000000000000000000000	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	.1 .0 .0 .0 .2		572 100.0

TABLE 7

	CUM	ULATIVE F CEILIN	PCT FREG	OF SIMU	LTANEQUS 8) AND V	DCCURRE	NCE	
CELCING (FEFT)	* ar >10	• DR >5	• DR >2	VSBY (NM = OR >1	= QR >1/2	• OR >1/4	• OR >50YD	
OR >6500 OR >5000 OR >3500 OR >2000	.5 .9 2.2 5.7	.7 1.0 3.1 7.3	1.0 3.1 7.3	1.0 3.1 7.3	1.0 3.1 7.3	1.0 3.1 7.3	1.0 3.1 7.3	

100					-	_	-	.7
	500 .5	.7	.7	.7	.7	• 7	• 7	
. DK >6			1 0	1.0	1.0	1.0	1.0	1.0
# AR >5	9.00	1.0	1.0		3.1	3.1	3.1	3.1
- NR >3		3.1	3.1	3.1		7,3	7.3	7.3
. OR >2		7.3	7.3	7.3	7.3			35.6
		35.4	35.6	35.6	35,6	35,6	35.6	
. TR >1				46.1	46.1	46.1	46.1	46.1
# DR >6	00 37.1	45.9	46.1			47.3	47.3	47.3
. OR >3		47.2	47.3	47.3	47.3			47.5
		47.3	47.5	47.5	47.5	47,5	47.5	
. OR >1				47.8	47.8	47.8	47.8	47.8
. DR >	0 37.7	47.7	47.8			277	277	277
	TAL 218	276	277	277	277	211	211	•

TUTAL NUMBER OF OBS: 579

PCT FREQ NH 45/81 52.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3		5	6	7	8	DBSCD	OBS
	12.4	7.3	7.0	6.8	3.7	7,5	10.5	26.7	.3	629

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							AU	GUST							
PERIOD: (PRIMARY)	1908-1977 1871-1977						TA	8LE 8				ARE		CDQUIMB	2.3W
		P	ERCENT	PREC	OF WIN	D DIRE	CTION TH VAR	VS DCC	URRENC ALUES	E OR N	DN-000	URRENC	E OF		
VSBY (NM)		N	NE	E	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL		
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	TOT &	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
1/2<	NO PCP	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.5			
	TOT &	. 1	.0	.0	.0	.3	.1	.0	.0	.0	.0	.5			
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0			
	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1			
2<5	NO PCP	.1	.0	.0	.0	.1	.1	.0	.0	.0	. 3	.7			
	TOT *	.1	.0	.0	.0	.1	.3	•0	.0	.0	.0	.7			
	PCP	.4	.0	.0	.0	.0	.0	:3		.0	.0	.5			
5<10	NO PCP	1.8	.6	.1		8.1	2.3	,3	:7	.0	. 8	14.6			
	TOT \$	2.2	.6	.1		8.1	2.3	.4	.7	.0	. 8	15.2			
	PCP	.0	.0	.0	.0	.1	.2	.1	.0	.0	.1	.5			
10+	NO PCP	5.4	2.4	. 5	3.0	50.6	13.0	1.7	2.9	.0	3,6	83.0			
	TOT &	5.4	2,4	.5	3.0	50.7	13.1	1.8	2.9	.0	3.7	83.5			

TOT 085 TOT 9CT 7.9 3.0 .6 3.0 59.3 15.7 2.2 3.6 .0 4.7 100.0

TABLE 9

			•				ND DIR				ED		
VSBY	SPO	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	4-10	.0	• 0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.1		.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT &	-1	.0	.0	.0	.2		.0	.0	.0	.0	.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1		
1<2	4-10	.0	.0	.0	.1	.0	.1	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT &	.0	•0	.0	.1	.0	.1	.0	.0	.0	.1	.3	
	0-3		.0	.0	.1	.0	.0	.0		.0	.4		
2<5	4-10		.0	.1			.0	.0		.0		.3	
	11-21	.1	.0	.0	.0	.3	.1	.0	.0	.0		.5	
	22+	.0	•0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT \$.2	•0	.1	•1	.3	.2	.0	.1	.0	.4	1.5	
2000000	0-3	.2	.1	.1	.0	.3	.3	.2		.0	.9		
5<10	4-10	1.4	.1	.0		2.3	1.3	.1	.3	.0		5.6	
	11-21	.5	•2	.1		4.0	. 8	.0	. 2	.0		5.8	
	22+	.0	•0	.0	.0	1.6	.2	.0	.0	.0		1.9	
	TOT %	2.1	• •	.2	•1	8.2	2.6	,3	.6	.0	.9	15.3	
2000	0-3	.4		.1	.3	1.4	1.1	.6	.4	.0	3.5	7.9	
10+	4-10	3.3	1.4	.2	1.7	13.9	6.5	1.4	2.1	.0		30.4	
	11-21	1.2	• 4	.2	.9	25.5	4.6	.2	.1	.0		33.2	
	22+	.3		.0	.3	9.1	1.4	.0	.0	.0		11.1	
	TOT \$	5.2	1.9	.5	3.1	49.9	13.6	2.2	2.7	.0	3.5	82.6	
1	nt gas												1027
	TOT PET	7.6	2.3	. 8	3.5	58.6	16.6	2.5	3.3	.0	4.9	100.0	

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PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1871-1977

TABLE 10

AREA 0029 COQUIMBO 28.55 72.3W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND DECURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	•0	.0	.7	8.8	22.6	1.5	1.5	.0	.0	1.5	36.5	63,5	137
90380	.0	.0	1.4	8.3	29.7	2.6	2.1	.7	.0	.0	44.8	55.2	145
12615	.6	.6	1.8	11.6	35.4	5.5	2.4	.0	.6	.0	58.5	41.5	164
18621	.6	.0	.6	11.7	20.8	5.8	1.9	.6	.0	.6	42.9	57.1	154
TOT	2	1	. 7	61	164	24	12	2	1	3	277	323	600

TABLE 11

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		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00603	.0	.0	.4	1.3	14.0	84.3	229	00603	.0	.8	10.6	28.0	61.4	132
90360	.0	.7	.0	1.8	15.2	82.2	276	90300	.0	1.4	10.8	36.0	53.2	139
12615	.0	.4	.4	1.2	13.8	84.3	254	12615	.6	3.1	14.9	44.7	40.4	161
18621	.0	.4	.4	1.4	18,3	79.6	279	18821	.7	1.4	13.6	31.3	55.1	147
TOT PCT	.0	.4	3	15	160	856 62.5	1038	TOT PCT	,3	10	73 12.6	205 35.4	301 52.0	579 100.0

TA	L	F	1	3

TABLE 1

	PERC	ENT FR	EQUENC	Y UF P	ELATIVE	HUMI	1TY 8	Y TEMP	TOTAL	PCT		PERCE	NT FR	EQUEN	Y QF W	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.1	.3	.0	.0	.0	3	.4	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0
70/74	.0	.0		.0	.1	.4	. 4	. 3	9	1.3	.1		.0	.0	. 8	.3	.0	.1	.0	.0
60/64	.0	.0	.0	.4	2.4	5.2	2.4	,6	74	11.0	1.1	.3	.0	.4	6.0	1.6	.2	.7	.0	.7
55/59	.0	.0		. 6	4.8	19.6	31.2	8.2	433	64.3	5.6	1.4	.4	2.3	39.5	9.1	1.2	1.6	.0	3.3
50/54	.0	.0			.9	2.8	11.6	7.4	153	22.7	2.1	. 9	.1	. 5	14.4	3.0	.5	. 3	.0	.9
45/49	.0	.0	.0	.0	.0	.0	.1	.0	1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
TOTAL	0	0	0		57	189	308	111	673				•							
PCT	.0	.0	.0	1.2	8.5	28.1	45.8	16.5			8.8	2.7	. 5	3.2	61.1	14.0	1.9	2.9	.0	4.9

TABLE 15

TABLE 16

	MEANS,	EXTREM	S AND	PFRCEN	TILES	OF TE	MP IDE	G F) !	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	66	63	60	56	52	50	49	56.0	571
90300	64	61	58	55	52	50	49	54.9	1037
12615	65	62	59	55	52	50	47	55.5	595
18821	72	67	64	58	54	51	50	58.3	1224

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL
GMT1
00803 .0 .0 6.0 32.3 47.3 14.4 82 167
00803 .0 .6 4.0 26.6 50.9 17.9 83 173
12615 .0 1.7 7.5 22.0 45.7 23.1 84 173
18621 .0 2.4 16.5 31.2 38.2 11.8 79 170
TOT 0 8 58 191 311 115 82 683

AUGUST

PERIOD: (PRIMARY) 1908-1977 (OVER-ALL) 1871-1977

TABLE 17

AREA 0029 COQUIMBO 28.55 72.3W

PCT	FREQ	QF	AIR	TEMPERATURE (D	EG F	AND	THE	OCCURRENCE	OF 1	POG	(WITHOUT	PRECIPITATION)
				WE ATRE		MOED		- APERCOCUC			The second second	

AIR-SEA 49 53 57 61 65 69 TOT W TMP DIF 52 56 60 64 68 72 FOG F	.1 .1
	.1
11/13 .0 .0 .1 .1 .7 .1 8 .0 1	.1
9/10 .0 .0 .1 .1 .7 .1 8 .0 1	
7/8 .0 .7 .6 1.3 .4 .0 21 .1 2	
6 .0 .1 .4 .6 .0 .0 8 .0 1	.1
	. 8
4 .0 .4 1.7 1.1 .0 .0 23 .1	.1
3 .0 .7 2.4 .7 .0 .0 27 .1	.6
3 .0 .7 2.4 .7 .0 .0 27 .1	.3
	• •
	. 2
	.0
	.0
-2 .4 9.0 3.5 .3 .0 .0 94 .0 13	. 1
-3 .8 4,9 2.9 .1 .0 .0 63 .0	. 8
-4 1.1 2.4 1.5 .1 .0 .0 37 .1 5	.0
-5 .6 2.0 .7 .0 .0 .0 23 .1 3	.1
-6 .4 .4 .0 .0 .0 .0 6 .0	. 8
	. 5
-9/-10 .4 .4 .0 .0 .0 .0 6 .0	. 8
TOTAL 37 273 8 11 7	04
328 66 3 715	•
	. 5

PERIOD: (DVER-ALL) 1963-1977

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	CTION V	ERSUS S	EA HEIG	HTS (FT	1	
HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	. 3		1.0	.3	.0	.0	.0	.0	.3
1-2	.0	3.1	.0	.0	.0	.0	3.1		.0	1.4	.0	.0	•0	.0	1.4
3-4	.0	1.0	2.1	.3	.0	.0	3,3		.0	.3	,3	.1	• 0	.0	.8
5-6	.0		.3	.0	.0	.0	. 3		.0	.0	1.0	:0	• 0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	• 0	.0	0
8-9	.0	.0	.0	.0	.0	.0	.0		.0		.3	.0	• 0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	•0	.0	• • •
12	.0	.0	.0	.0	.0	:0	.0		.0	.0	:0	:0	• 0	.0	.0
12 13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
17-19	.0	.0	.0	.0	, 3	.0	, š		.0	. 0	.0	.0	• 0	.0	• 0
20-22	.0	.0	.0	.3	.0	.0	.3		.0	.0	.0	.0	• 0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
25-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.000000	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	• 0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
874	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	4,4	2.4	.6	, 3	.0	7,8		.0	2,1	1.7	.1	000000000000000000000000000000000000000	.0	3.9
				E											
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.0	.4	.1	.0	.0	.0	. 5
1-2	.0	.0	.0	.0	.0	.0	.0		. 3	1.6	.1	.0	.0	.0	2.0
3-4	.0	.0		.0	.0	.0	.0		.0	.0	.0	.4	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.1	.2	:0	.0	- 0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	0	.0	.0	000000000000000000000000000000000000000	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	-0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	2.1	.0	.0	.0	.0	3.7
TOT PCT	.0	.0	.0	.0	.0	.0	.0		.3	2.1	.7	.5	.0	.0	3.7

PERIOD:	COVE	R-ALL)	1963-1	977					AUGUST				AREA	0029	COQUIMB	a
								TABLE	18 (CONT)					28,		.3W
				PC	T FREO	OF WIND	SPEED	(KTS)	AND DIREC	TION	VERSUS	SEA HEIG	HTS (FT)		
				5								22-33				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21		34-47	48+	PCT	
<1	.0	2.3	. 3	.0	.0	.0	2,5		1.0	1.9	.0	.0	.0	.0	3.0	
1-2	.0	7.0	3.7	.0	.0	.0	10.7		• ?	3.0	1.0	.0	.0	.0	4.7	
3-4	.0	1.7	12.9	2.9	.0	.0	17.4		.0	1.8	1.0	.2	.0	.0	3.0	
7	.0	.6	8.7	1.7	.0	.0	11.1		•0	.4	6	.0	••	.0	1.0	
8-9	.0	.0	4.8	4.3	.0	.0	9.1		.0	.0	1.5		• 0	.0	2.0	
10-11		.3	3.1	2.7	.3	.0	6,5			.0		.0	• 0	.0	.7	
12	.0	.0	1.0	1.0	.0	.0	2.1		.0	:0	.0		• 0	.0	:6	
13-16	.0	.0	.3	.0	.0	.0	.7		:0	.0	.0		000000000000000000000000000000000000000	.0	:0	
17-19	.0	.0	.0	.0	.3	.0	. 3		.0	.0			. 0	.0	.0	
20-22	.0	.0	:0	.0	.0	.0	:0		.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	. 0		:0	:0			.0	.0	.0	
26-32	.0	.0	.0	.0		.0	ō		.0	.0			• 5	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	ö		.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	. 0		.0	.0			.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	ō		.0	.0			.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
TOT PCT	.0	11.8	34.9	13.0	1.0	.0	60.8		1.7	7.1			.0	.0	15.2	
				w								NW				тот
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21		34-47	48+	PCT	PC
<1	.3	.5	.0	.0	.0	.0	. 9		.0	.1	.0		.0	.0	.1	
1-2	.0	.3	.0	.0	.0	.0	. 3		.3	. 3			.0	.0	.7	
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.4			.0	.0	.4	
5-6	.0	. 3	.6	.0	.0	.0	. 9		.0	. 3	.1		.0	.0	.4	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0		.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	. 0		.0	.0		.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	- 0		.0	.0		.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	. 0		.0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
41-48		.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
41-48	.0					.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48 49-60 61-70	.0	.0	.0	.0	.0	.0										
41-48 49-60 61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
41-48 49-60 61-70	.0	.0				.0	2.1				.0	.0	000000000000000000000000000000000000000		.0	95

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT 085
<1	6.9	5.9	.3	.0	.0	.0	13.1	403
1-2	1.4	10.6	4.8	.0	.0	.0	22.8	
3-4	.0	5,2	16.3	3,8	.0	.0	25.3	
5-6	.0	1.7	11.4	1.7	.0	.0	14.9	
7	.0	.0	6.6	4.8	.0	.0	11.4	
8-9	.0	. 3	3.8	3,1	.3	.0	7.6	
10-11	.0	.0	1.7	1.0	.0	.0	2.8	
12	.0	.0	. 3	.0	,3	.0	.7	
13-16	.0	.0	.0	,3	.0	.0	.3	
17-19	.0	.0	.0	.0	.7	.0	.7	
20-22	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
		•			-10		••	289
TOT PCT	8.3	29.8	45.3	15.2	1.4	.0	100.0	

PERIC	D: (DV	ER-ALL) 199	1-1977					TABLE	19											
					PERCEN	T FRE	QUENCY	OF WA	VE HELD	SHT (F	r) VS	HAVE P	ERIOD	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	HEAN
<6	1.0	4.7	7.7	4.3	1.8	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	4
6-7	.0	1.4	6.5	10.1	6.7	2.4		.6	.5	.0	.0	.0	.0	.0	.0	.0		.0	.0	146	6
8-9	.0	.4	1.4	5.1	4.3	4.7	3.2	.8	1.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	108	8
10-11	.0	.4	. 8	1.0	1.6	3.2		1.8	.6	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	61	9
12-13	.0	.0	. 8	1.2	.2	.2	1.2	.6	.4	.2	.0	.0	.0		.0	.0		.0	.0	24	8
>13	.0	.0	.0	.0	.2	. 6	.4	.2	1.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	13	11
>13 INDET	1.6	.4	1.4	1.0	1.0	. 8	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	•
TOTAL	13	36	92	112	78	66	48	50	20	. 5	3	ő	1	0	Ö	0	0	0	0	494	6
PCT	2.6	7.3	18.6	22.7	15.8	13.4	9.7	4.0	4.0	1.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1868-1977

TABLE 1

AREA 0029 CDQUIMBD 28.55 72.3W

PERCENT FREQUE	NCY OF	WEATHER	DCCURRENCE	BY	WIND	DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WNO DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FDG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N NE	.0	.0	2.8	.0	.0	.0	.0	2.8	2.8	.0	2.1	.0	6.9	.0	85.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	87.5
E	.0	16.7	.0	.0	.0	.0	.0	16.7	16.7	.0	.0	.0	.0	.0	66.7
E SE	.0	.0	2.5	.0	.0	.0	.0	2.5	.0	.0	1.3	.0	.6	.0	95.5
S	.0	.0	1.5	.0	.0	.0	.0	1.5	.2	.2	1.2	.2	. 8	.0	95.8
SW	.0	.0	4.0	.0	.0	.0	.0	4.0	1.7	.0	2.3	.0	1.1	.0	90.9
W	.0	.0	.0	.0	.0	.0	.0	.0	4.9	.0	2.4	.0	.0	.0	92.7
NW	5.6	.0	5.6	.0	.0	.0	.0	11.3	.0	.0	4.2	.0	.0		84.5
VAR	.0	.0	.0	.0	.0	.0	.0	,0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	5.9	.0	.0	.0	.0	5.9	.0	.0	.0	.0	•0	.0	94.1
TOT PCT	800	.1	2.1	.0	.0	.0	.0	2.4	.8	.1	1.5	•1	1.1	.0	94.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			F	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	#AIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FDG WD PCPN	FOG WO PCPN PAST HR		SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00603 0609	.0	.5	1.0	.0	.0	.0	.0	1.4	1.1	.5	1.4	.0	.0	.0	96.7
12615 18621	.5	.0	4.6	.0	.0	.0	.0	5.0	1.0	:0	2.3	.0	1.4	.0	90.4
TOT PCT	823	•1	2.1	.0	.0	•0	.0	2.3	.7	.1	1.5	•1	1.1	.0	94.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KN	oTs)								HOUR	(GMT)				
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21	
N NE	1.5	3.5	1.0	.2	.0	.0		6.1	7.3	4.1	:0	6.0	6.6	6.7	4.6	7.6	5.1	
E	.4	.9	.3	.2		.0		1.7	9.4	1.4	.0	.9	1.2	3,2	.0	1.9	1.6	
SE	3.1	17.8	23.2			•0		12.3	14.6	11.7 57.3	13.9	11.8	13.9	12.5	34.9	12.5	12.8	
SW	1.2	6.1				.0		12.9	10.8	14.8	12.5	12.8	11.2		31.6	14.4		
W	1.1	2.0	.2	.0	.0	.0		3.3	5.3	2.4	.0		3.9	2.9	23.0	3.2		
VAR	1.3	3.1	.7	.0	.0	.0		5.1	6.4	3.8	.0		5.0	5.0	2.6	6.4		
CALM	4.4	••	••	••	••	••		4.4	.0	3.9	5.6		7.4	4.9	2.6	3.7	3.7	
TOT OBS	519	1408	1320	440		0	3717		11.6	617	18	616	461	617	38	945	405	
TOT PCT	14.0	37.9	35.5	11.8	.8	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

						and the same of							
WND DIR	0-6	7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL DBS	PCT	MEAN SPD	00	HDU1 06 09	12 15	18	
N NE	3.3	2.4	•:	:0	.0		6.1	7.3	4.0	6.3	6.6		
SE	.9	.4	.3	.1	.0		1.7	9.4	1.3	1.0	3.1	1.8	
SE	2.2	4.9	4.2	1.0	.1		12.3	14.6	11.8	12.7	11.8	12.6	
5	10.6	23.2	16.4	2.8	.0		53.0	13.7	57.6	53.4	52.7	50.5	
SW	4.3	6.0	2.4	.3	.0		12.9	10.8	14.7	12.1	10.6	13.8	
W	2.3	.9		.0	.0		3.3	5.3	2.4	3.3	4.0	3.3	
NW	3.2	1.7	.2	.0	.0		5.1	6.4	3.7	4.7	4.9	6.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.4						4.4	.0	3.9	5.4	4.7	3.7	
TOT OBS	1194	1480	886	155	2	3717		11.6	635	1077	655	1350	
TOT PCT	32.1	39.8	23,8	4.2	.1		100.0		100.0	100.0	100.0	100.0	

			E	

PERIODI	(PRIMARY)	1908-197						TABLE	4			AREA	55	MB0 72.3W
				PER	CENTAGE	FREQU	ENCY OF	WIND	SPEED BY	HOUR	(GMT)			
		HOUR	CALM	1-3	4-10		SPEEU 22-33			MEAN	PCT	TOTAL		
		00±03 06609 12615	3.9 5.4 4.7	8.7 9.0	35.0 37.3 39.8	38.4	12.9 12.7 9.8	1.	6 .0	11.7	100.0 100.0 100.0	635 1077 655		
		18421 TOT PCT	3.7	9.4 355 9.6	38.7 1408 37.9	35.9 1320 35.5	11.6 440 11.8	3	0 0		100.0	1350 3717		

				ARLE 5									BLE 6					
				4066 3											Security States			
,	CT FRE			DIREC		EIGHTHS)			PERCEN		CURREN		NH <5/					
WND DIR	0-2	3-4	5-7	8 & 985CD	TOTAL	CLOUD	000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N NE	:7	.1	1.4	2.4		6.5	:0	.0	:6	•:	1:7	:9	:0	:0	:0	:0	1.2	
E SE	1.0	.0	1.2	2.2		7.6	.0	.0	.0	.6	2.1	.0	.0	.0	.0	.0	1.7	
S	23.3	7.8	13.4	6.3		5.0	.3	.0	1.0	7.4	2.9	7.3	1.3	:1	.0	.3	6.3	
NW	.2	.2	.0	1.2		6.3	.0	.0	.0	•1	.6	:4	.0	.0	.0	.0	:4	
CALM	.0	.0	.0	.0		6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	205 30.4	10.1	134	267 39.6	674 100.0	5,6	.3	.3	2.1	11.7	170 25.2	12.2	1.9	.3	.0	.3	308 45.7	100.0

					TABLE	7			
		CUM	ULATIVE OF CEILIN	PCT FREG	OF SIMU	LTANEOUS 8) AND V	DECURRE SBY (NM)	NÇE	
					VSBY (NM)			
	CEILING	 OR 	- UR	- DR	- DR	· DR	- OR	- DR	- OR
	(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
	R >4500	.3	.3	.3	.3	.3	.3	.3	.3
• 0	R >5000	.3	.6	.6	.6	.6	.6	.6	.6
	R >3500	2.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8
. 0	R >2000	12.7	15.1	15.1	15.1	15.3	15.3	15.3	15.3
. 0	R >1000	31.7	39.4	39.9	39.9	40.0	40.0	40.2	40.2
. 0	R >600	40.5	50.8	51.4	51.4	51.5	51.5	51.7	51.7
. 0	R >300	41.6	53.0	53.7	53.7	53.9	53.9	54.0	54.0
. 0	R >150	41.8	53.3	54.0	54.0	54.1	54.1	54.3	54.3
. 0	R > 0	41.9	53.4	54.1	54.1	54.3	54.3	54.6	54.6
	TOTAL	288	367	372	372	373	373	375	375

					TABL	E 7A					
		P	ERCENT	AGE FR	EQ OF	LOW	CLOU	0\$	(EIGHT	HS)	
•	1	2	,		5		6	,		OBSCD	TOTAL OBS
16.8	9.0	8,5	6.2	3.6	3,8	9	.0	7.3	35.8	.0	730

SI	FP	TF	N:I	3.5	0

		PE	RCENT	FREQ	F WIN	D DIRE	CTION TH VAR	VS DCCI	JRRENC	E OR N	ON-DCC	URRENC	E OF
VSBY		N	NE	E	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL
(NM)													OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	TOT \$.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	. 1	.2	.0	.0	.0	.0	.0	.3	
	TOT &	.0	.0	.0	.1	. 2	.0	.0	.0	.0	.0	.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	. 1	. 1	.0	.0	. 1	
	TOT *	.0	.0	.0	.0	.0	.0	.1	•1	.0	.1	.1	
	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
2<5	NO PCP	.1	.0	.0	.3	. 3	.1	.0		.0	.0	. 8	
	TOT \$.1	.0	.0	.4	.4	• 1	.0	•	.0	.0	1.0	
	PCP	.1	.0	.0	.0	. 9	.3	.0	.0	.0	.0	1.4	
5<10	NO PCP	1.3	. 1	.3	.7	9.8	3.1	1.2	.4	.0	.4	17.0	
	TOT \$	1.4	.1	.3	.7	10.7	3.5	1.2	.4	.0	.4	18.4	
	PCP	.0	.0	.1	.0	.0	.3	.0	.3	.0	.0	.6	
10+	NO PCP	3.1	.4	.4	3.6	56.1	10.9	1.3	1.5	.0	1.6	79.2	
	TOT *	3.1	.4	.5	3.8	56.1	11.2	1.3	1.8	.0	1.6	79.8	

TABLE

			P				ND DIR				ED		
VSBY (NM)	SPD KTS	N	NE	E	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		. 2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0		.1		.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	*	.2	*	.0	.0	.0	.0	.3	
	0-3	.0	.0	.0			.0			.0	.1	.3	
1<2	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	•0	.0			.0		•	.0	.1	• 4	
	0-3	.2	.0	.0	.0	.1		.0	.0	.0	.1	.5	
2<5	4-10	.1	.0	.0	.1	.5	.3	. 1		.0		1.1	
	11-21	.0	.0	.0	.1	.2	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT \$.3	•0	.0	.3	. 8	.4	.1	•	.0	.1	1.9	
	0-3	.6		.0	.1	.5	.5	.5	.3	.0	1.0	3.5	
5<10	4-10	.9	.1	.1	.3	3.5	1.5	.3	.3	.0		6.9	
	11-21	.3	.0	.1	.1	4.8	1.9	.1	.0	.0		7.4	
	224	.1	.0	.0		2.0	.3	.0	.0	.0		2.4	
	TOT #	1.8	•1	.2	.6	10.8	4.2	.9	.6	.0	1.0	20.1	
	0-3	.3	.0	.1	.4	2.0	.6	.1	.3	.0	3.5	7.3	
10+	4-10	2.3	.5	. 6	1.5	15.8	4.0	1.2	1.2	.0		27.6	
	11-21	.3		.0	1.3	24.0	4.9	.0	.2	.0		30.8	
	22+	.1	.0	.0	.1	9.6	1.4	.0	.0	.0		11.4	
	TOT %	3.0	.5	.7	3.4	51.6	11.4	1.3	1.7	.0	3,5	77.1	
1	nt ofs												1043
1	OT PET	5.2	.6	.9	4.3	63.6	16.0	2.3	2.3	.0	4.7	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1908-1977 (OVER-ALL) 1868-1977

TEMP F

65/69 60/64 55/59 50/54 45/49 TOTAL PCT

TABLE 10

AREA 0029 COQUIMBO 28.55 72.38

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL	
00603	.5	.0	2.2	12.1	17.0	10.4	1.6	.0	.0	.5	44.5	55.5	182	
90380	.0	.0	.7	8.8	25.7	15.5	.7	.0	.0	.0	51.4	48,6	148	
12615	.6	.0	4.5	12.9	34.8	14.0	2.2	.0	.0	.0	69.1	30.9	178	
18621	.0	1.1	1.6	11.1	21.6	10.0	3.7	1.1	.0	.5	50.5	49,5	190	
TOT	2	2	16	. 79	172	. 86	15	2	0	2	376	322	698	

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00603	.4	.0	.4	1.2	18.1	79.9	249	00803	.6	2.8	15.6	29.4	55.0	180
06609	.0	.7	.0	.7	21.2	77.3	269	90360	.0	.7	10.3	41.8	47.9	146
12615	.4	.4	.8	3.4	22.8	72.2	263	12615	.6	6.3	20.1	50.0	29.9	174
18621	.0	.0	.3	2.1	19.6	78.0	286	18821	.0	2.7	14.4	37.4	48.1	187
TOT	2	3		20	218	820	1067	TOT	2	3.2	105	271	311	687

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ .0 .8 4.3 .3 .0 .0 .0.000 .0 .005

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP 1.6 .3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR MIN MEAN 49 55.2 50 56.1 51 58.6 49 56.8 HQUR (GMT) 00603 06609 12615 18621 TOT 66 68 76 50 51 53 60 64 68 55 56 58 52 52 54 59 61 64

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR 48.0 18.6 52.8 23.9 47.5 20.7 40.0 11.0 367 144 83 84 83 79 82 .0000 26.0 18.3 22.7 34.0 199 2.5 7.4 4.4 9.1 12.5 66

SEPTEMBER

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1868-1977

TABLE 17

AREA 0029 COQUIMBO 28.55 72.3W

PCT	FREQ	OF	AIR	TEMPERATURE	IDEG	F)	AND	THE	DCCURRENCE	0	FOG	CWITHOUT	PRECIPITATION)
-----	------	----	-----	-------------	------	----	-----	-----	------------	---	-----	----------	----------------

					-				
AIROSEA	49	53	57	61	65	TOT	W	WD	
THP DIF	52	56	60	64	68		FOG	FOG	
11/13	.0	.0	.0	.1	.3	3	.0	.4	
9/10	.0	.0	.0	.7	.1	6	.1	.7	
7/8	.0	.0	.0	.9	.4	10	.0	1.3	
6	.0	.0	.9	.3	.4	12	.0	1.6	
5	.0	.4	1.6	1.3	.1	26	.0	3.5	
•	.0	.4	2.7	1.2	.1	34	.1	4.4	
3	.0	. 8	2.9	.4	.0	31	.0	4.1	
2	.0	2.8	4.9	.4	.1	62	. 3	8.0	
1	.1	5.3	5.2	.4	.0	83	.1	10.9	
Ö	.4	10.0	5.7	:1	.1	123	.3	16.2	
-1	.4	10.4	4.1	. 4	.0	115	.0	15.4	
-2	.5	8.1	2.3	.0	.0	82	.1	10.8	
-3	. 5	6.0	2.3	.0	.0.	66	.0	8.8	
-4	1.2	4.5	1.3	.0	.0	53	.3	6.8	
-5	.7	3,2	1	.0	.0	30	.0	4.0	
-6	.1	. 5	.3	.0	.0		.0	.9	
-7/-8	.3	.0	.0	.0	.0	2	.0	.3	
-9/-10	.1	.4	.0	.0	.0	1	.0	.5	
TOTAL	33	••	258	••	13	-	10	739	
LOTAL	••	398	230	47		749	10	139	
PCT	4.4	53,1	34.4	6.3	1.7	100.0	1.3	98.7	
	7.7	23.1	2404	0.0	1.	100.0	4.0	70.1	

PERIOD: (DVER-ALL) 1963-1977

				PC	T FREQ D	F WIND	SPEED	(KTS)	AND	DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)		
				N	34-47								NE			
HGT	1-3	4-10	11-21	22-33		48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.0	•0	.0	.0	1.0			.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	. 8	.0	.0	.0	5.0			.0	.4	.0	.0	.0	.0	.4
	.0	.0	•0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
5-6	.0	.6	.3	.0	.0	.0	. 8			.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	• 0			.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	, 3			.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000			.0	.0	.0	.0	000000	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
61-70	.0	:0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0000	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	• 0	.0	.0
TOT PCT	.5	2.3	1.0	.3	.0	.0	4.1			.0	:4	.0	:0	:ŏ	.0	:4
			•••											•		•
HGT	1-3	4-10		22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	
<1		.0	11-21							.0	.8		22-33			PCT
	.0	.0	.0	.0	.0	.0	.0					.0	.0	.0	.0	. 8
1-2	.0	.3	.3	.0	.0	.0	.6			.0	.8	.1	.0	.0	.0	. 8
3-4	.0	.3	.0	.0	.0	.0	. 3			.0	.1	.7	.0	.0	.0	. 8
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0	1.1	.1	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.3	000000000000000000000000000000000000000	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0
41-48	.0	:0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60		.0	.0	.0	.0	.0	:0			.0	.0	.0	.0	• 0	.0	.0
61-70	.0	:0			.0		.0			.0	.0	.0		.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0
	.0	.0	.0	.0		.0	.0				.0		.0	.0	.0	.0
87+	.0	.0	.0	•0	.0	.0	.0			.0	0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	. 3	.0	.0	.0	. 8			.0	1.7	2.2	.6	.0	.0	4.4

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PERIO); (DV	ER-ALL	195	0-1977	,				TABLE	19											
					PERCEN	FRE	QUENCY	OF WA	VE HEI	GHT (F	7) VS	WAVE P	ERIDO	(SECON	DS)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.8	5.9	7.9	7.0	3.3	.5	1.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	4
6-7	.0	. 5	4.5	7.0	7.4	2.8		1.5	. 8	.3	.3				.0	.0	.0	.0	.0	177	7
8-9	.2	.3	1.7	5.5	4.3	2.7	2.7	1.3		.5	.2				.0	.0	.0	.0	.0	131	8
10-11	.0	.0	. 8	1.2	2.0	2.2		.5	.3	.0	.0				.0	.0		.0	.0	43	7
12-13	.0	.0	. 3	.7	. 8	. 3		.2		.2	.0	.0			.0	.0	.0	.0	.0	18	7
>13	.0	.0	.0	.2	.7	. 2		.0		.0	.2				.0	.0	.0	.0	.0	12	11
INDET	1.0	.8	1.2	1.0	2.7			.5		.3	.0				.0			.0	.0	50	6
TOTAL	18	45	98	135	127	54	56	24	29	8	4	0	0	0	0	0		0	0	598	6
PCT	3.0	7.5	16.4	22.6	21.2	9.0		4.0		1.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	4.6	7.7	.0	.0	.0	.0	12.3	003
1-2	. 8	13.9	7.7	.0	.0	.0	22.4	
3-4	.3	7.9	12.8	1.6	.0	.0	22.7	
5-6	.3	2.7	12.8	2.5	.0	.0	18.3	
7	.3	. 5	7.9	3,3	. 3	.0	12.3	
8-9	.0	. 3	1.1	2.2	. 5	.0	4.1	
10-11	.0	. 3	1.1	3,3	, 3	.0	4.9	
12	.0	.0	.3	, 3	.0	.0	.5	
13-16	.0	.0	.0	. 5	.0	.0	.5	
17-19	.0	.0	.0	.8	. 3	.0	1.1	
20-22	.0	ō	.3	.5	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0		.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0		,0	.0	.0	:0	
61-70	.0	.0	.0	.0	.0	.0	:0	
71-86	.0	.0	.0			.0	:0	
87+	:0	:0	.0	•0		.0	.0	
0/•	.0	.0	.0	.0		.0	.0	744
TOT PCT	6.3	33,3		15.0			100 0	366
IUI PUI	0.0	30.0	44.0	1200	1.4	.0	100.0	

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	4.6	7.7	.0	.0	.0	.0	12.3	
1-2	.8	13.9	7.7	.0	.0	.0	22.4	
3-4	.3	7.9	12.8	1.6	.0	.0	22.7	
5-6	.3	2.7	12.8	2.5	.0	.0	18.3	
7	.3	. 5	7.9	3.3	.3	.0	12.3	
8-9	.0	. 3	1.1	2.2	. 5	.0	4.1	
10-11	.0	.3	1.1	3,3	.3	.0	4.9	
12	.0	.0	.3	.3	.0	.0	.5	
13-16	.0	.0	.0	.5	.0	.0	.5	
17-19	.0	.0	.0	.8	.3	.0	1.1	
20-22	.0	.0	.3	.5	.0	.0	.8	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	,0	.0	.0	.0	
61-70	.0	. 0	.0	.0	.0	.0	.0	
71-86	.0	. U	.0	.0	.0		.0	
0.	0	^			0	•	^	

				5 22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
HGT	1-3	4-10	11-21	.0	.0	.0	5.5	.2	1.0	.0	.0	34-41	.0	1.2	
<1	1.5	8.2	.0		.0		13.8	.0	1.7	1.2	.0	.0	.0	2.9	
1-2	.6	5.5	10.5	1.6	:0	.0	17.6	.3	1.7	1.7	.1	.0	.0	3.8	
5-6	.0	1.9	9.9	1.9	.0	.0	13.8	.3	.1	1.7	:4	.0	.0	2.4	
7	.0	.5	6.6	3.1	.3	.0	10.7	.0	.1	1.0	:1	.0	.0	1.2	
8-9	.3			1.4	.6	.0	3.0	.0	.3	.1	.1	.0	.0	.5	
10-11	.0	.0	1.0	2.8	,2	.0	4.3	.0	.0	,1	, 5	.1	.0	.6	
	.0	.0	.3	.3	.0	.0	.6	.0	.0	.0	.0	:0	.0	.0	
12	.0	:0	:0	.5	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.7	.3	.0	1.0	.0	.0	.0	:1	.0	.0	.1	
20-22	.0	:0	.2	.4	.0	.0	.6	.0	.0	.1	i	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	ŏ	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	20.4	34.6	12.7	1.3	.0	71.4		4.8	5.9	1.6	.1	.0	13.0	
	.,,	20.4	34.0			••		••			•••	•			
				W							NW				TOTAL
HGT	1-3	4-10	11-21	W 22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	. 8	.0		.0	.0	1.0	.3	.3	.0	22-33	.0	.0	.6	PCT
<1 1-2	.2	1.0	.0	.0	.0	.0	1.0	.3	.3	.0	.0	:0	.0	.6	PCT
<1 1-2 3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	.6	.0	.0	.0	.0	.6	PCT
<1 1-2 3-4 5-6	.0	1.0	.0	.0 .0 .0	.0	.0	1.0	.3 .0 .0	.6	.0	.0	.0	.0	.6	PCT
<1 1-2 3-4 5-6	.0	.8 1.0 .4 .2	.0	.0 .0 .0	.0	.0	1.0 1.0 .4 .2	.0	.6	.0	22-33	.0000	.0	.6	PCT
1-2 3-4 5-6 7 8-9	.0	.8 1.0 .4 .2 .0	.0	22-33	.0	.0	1.0 1.0 .4 .2 .0	.3	.3	.0	22-33	.00000000000000000000000000000000000000	.0	.6	PCT
<1 1-2 3-4 5-6 7 8-9 10-11	.2	.8 1.0 .4 .2 .0 .0	.00000000000000000000000000000000000000	22-33	.0	.0	1.0 1.0 .4 .2 .0	.3 .0 .0 .0	.3	.0	22-33	.0	.0	.6	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12	000000000000000000000000000000000000000	.8 1.0 .4 .2 .0 .0	000000000000000000000000000000000000000	22-33 .0 .0 .0 .0 .0	.0	.0	1.0 1.0 .4 .2 .0	.3 .0 .0 .0	000000000000000000000000000000000000000	.0	22-33	000000000000000000000000000000000000000	.0	.6	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16	.2	.8 1.0 .4 .2 .0 .0	.0	.0 .0 .0 .0 .0 .0	.0	.0	1.0 1.0 .4 .2 .0 .0	.3	.3	.0	22-33	000000000000000000000000000000000000000	.0	.6	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19	.00000000000000000000000000000000000000	.8 1.0 .4 .2 .0 .0 .0	.00.00	22-33	.0	.0	1.0 1.0 .4 .2 .0 .0	.3	.3	.0	22-33	00000000000	.0	.6	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22	.0	.8 1.0 .4 .2 .0 .0 .0 .0	000000000000000000000000000000000000000	22-33	.0	.0	1.0 1.0 4.2 .0 .0	.3	.3	.0	22-33	000000000000000000000000000000000000000	.0	.6	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25	000000000000000000000000000000000000000	.8	000000000000000000000000000000000000000	22-33	.0	.0	1.0 1.0 .4 .2 .0 .0 .0	.3		.0	22-33	000000000000000000000000000000000000000	.0	.6.9	PCT
1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32	200000000000000000000000000000000000000	.8	000000000000000000000000000000000000000	22-33	000000000000000000000000000000000000000	.0	1.0 1.0 .4 .2 .0 .0 .0	.3	.3	.0	22-33	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	.6.9	PCT
1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40	200000000000000000000000000000000000000	.8 1.0 .4 .2 .0 .0 .0 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	22-33	.0	.0	1.0 1.4 .2 .0 .0 .0	.3		.0	22-33	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	.6.9	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48	.2	.8 1.0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	0000000000000000	22-33	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	1.0	.3		.0	22-33	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	.69	PCT
<pre><1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60</pre>	.2	.8 1.0 .4 .2 .0 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0	.00000000000000000000000000000000000000	1.0	.90000000000000000000000000000000000000	.00000000000000000000000000000000000000	.0	22-33	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	.6.9	PCT
<1 1-2 3-4 5-6 7 8-9 10-11 13-16 17-19 23-25 26-32 33-40 41-48 49-60 61-70	.2	.8 1.0 .4 .2 .0 .0 .0 .0 .0 .0 .0	.00.00.00.00.00.00.00.00.00.00.00.00.00	22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00	.00	1.0 1.0 .4 .2 .0 .0 .0 .0 .0	.00		.0	22-33	000000000000000000000000000000000000000		.00	PCT
<pre><1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 23-40 41-48 49-60 61-70 71-86</pre>	.2	.8 1.0		22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00	.00000000000000000000000000000000000000	1.0 1.0 2 0 0 0 0 0 0 0 0	.90000000000000000000000000000000000000		.00	22-33	000000000000000000000000000000000000000		.00	TOTAL
<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 41-48 61-70 71-86 87+	.2	.8 1.0 .4 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		.00000000000000000000000000000000000000	200000000000000000000000000000000000000	.00		.00	22-33	000000000000000000000000000000000000000		.00	PCT
<pre><1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 23-40 41-48 49-60 61-70 71-86</pre>	.2	.8 1.0		22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00	.00000000000000000000000000000000000000	1.0 1.0 2 0 0 0 0 0 0 0 0	.90000000000000000000000000000000000000		.00	22-33	000000000000000000000000000000000000000		.00	TOTAL PCT

PCT FREO OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

OCTOBER

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1864-1977

TABLE 1

AREA 0029 CDQUIMBO 28.55 72.1W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIR	CTION

					-										
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR	FOG WO PCPN	POG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUS' BLWG SNO	
N	2.9	.0	.0	.0	.0	.0	.0	2.9	2.9	4.4	2.9	.0	.0	.0	89.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	20.0	.0	.0	.0	60.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
S	.6	.0	1.6	.0	.0	.0	.0	1.9	.6	.0	1.2	.0	1.9		94.5
SW	1.0	.0	.7	.0	.0	.0	.0	1.7	1.0	.0	1.2	.0	3.0		93.1
W	.0	.0	.0	.0	.0	.0	.0	.0	4.4	.0	.0	.0	.0		95.6
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	97.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	6.9	.0	89.7
TOT PCT TOT OBS:	732	.0	1.1	.0	.0	•0	.0	1.6	1.0	.3	1.4	•0	2.0	.0	93.9

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST Hour	THOR	FOG WO PCPN	PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00603 06609	1.0	.0	2.6	.0	.0	.0	.0	3.1	1.0	.6	1.2	.0	2.9	:0	94.2
12615 18621	1.1	.0	1.6	.0	.0	.0	.0	2.7	1.6	.0	2.7	.0	2.6	.0	92.3
TOT PCT	742	.0	1.1	•0	.0	.0	•0	1.6	.9	.3	1.3	.0	2.0	.0	93.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KN	ots)								HOUR	(GMT)			
WND DIR	0-3			22-33		48+	TOTAL	PCT	SPD	00	03	06	09	12	15	18	21
N_	. 9	2.1	.8	.0	.0	.0		3.8	7.0	1.7	.0	2.8	4.0	6.2	4.2	5.2	1.8
NE	.4	.6	.2	.0	.0	.0		1.1	5.8	. 5	.0	.9	1.8	1.6	4.2	1.5	. 2
E	.5	.4	.2		.0	.0		1.1	5.9	.8	.0	.6	1.3	2.0	.0	1.1	1.0
SE	1.1	3.8		1.4	. 1	.0		10.4	12.3	9.3	5.9	7.9	12.5	11.0	7.3	11.1	11.4
S	4.2	20.4		5.7	.2	.0		56.0	12.5	59.6	73.5	61.8	56.3	55.3	49.0	50.1	55.4
SW	1.9	8.2	5.6	.9		.0		16.6	10.0	17.5	14.7	16.7	14.5	14.8	16.7	17.9	17.3
W	1.0	1.5	. 3		.0	.0		2.8	5.4	2.4	.0	1.6	. 9	1.7	2.1	4.8	
NW	.9	1.8	.4	.0	.0	.0		3.1	5.9	3.2			1.8	2.5	9.3	3.6	5.0
VAR	.0	.0			.0	.0		.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	5.1	••	• •		••	• •		5.1	.0	4.9	5,9		6.9	5.0	8.3	4.6	3.9
TOT OBS	570	1371	1300	284	12	0	3537		10.7	589	17	597	448	564	24	885	413
TOT PCT	16.1	38.8	36.8	8.0	.3	.0		100.0		100.0				100.0		100.0	

TABLE 3A

WND DIR	0-6	WIND 7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18 21
N NE	2.1	1.6	:1	:0	.0		3.8	7.0	1.7	3.3	6.1	4.1
	• '	• 4		••	.0		1.1	5.9	.8	1.9	1.9	1.1
		. 2										
SE	2.7	4.5	3.0	• 2	-		10.4	12.3	9.2	9.9	10.9	11.2
5	13.2	25.4	15.7	1.7			56.0	12.5	60.0	59.4	55.0	51.8
SW	5.8	8.1	2.6	.1	.0		16.6	10.0	17.4	15.8	14.9	17.7
W	2.2	.5	,1	.0	.0		2.8	5.4	2.4	1.3	1.7	4.6
NW	2.1	.9	.1	.0	.0		3.1	5.9	3.1	2.1	2.7	4.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	5.0	6.0	5.1	4.4
TOT DBS	1229	1471	764	71	2	3537		10.7	606	1045	588	1298
TOT PCT	34.7	41.6	21.6	2.0	.1		100.0			100.0		

		F	

PERIOD:		1908-1977
	(DVFR-ALL)	1864-1977

TABLE	4

AREA 0029 COQUIMBO 28.55 72.1W

PERCENTAGE	FREQUENCY	OF	WIND	SPEED	BY	HOUR	(GMT)	

HOUR	CALM	1-3	4-10	MIND	SPEED (34-47	48+	MEAN	PCT	TOTAL
60300	5.0	8.9	35.1	40.6	9.6	. 8	.0	11.5	100.0	606
06409	6.0	11.5	35.6	38.1	8.6	. 2	.0		100.0	1045
12415	5.1	12.1	40.6	34.0	7.8	. 3	.0	10.3	100.0	588
18621	4.4	11.2	42.1	35.1	6.9	.2	.0		100.0	1298
TUT	180	390	1371	1300	284	12	0	10.7		3537
PCT	5.1	11.0	38,8	36.8	8.0	.3	.0		100.0	

TARLE 5

	PERCEN				CEILIN NH <5/					
50	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH C5/8 ANY HGT	TOTAL
.0	:0	.8	.5	1.2	.0	.2	.0	.1	• •	
.0	.0	.2	.0	.7	.0	.0	.0	.0	.0	

TABLE 6

P	CT FREQ			CLUUD A		(EIGHTHS)
WND DIR	0-2	3-4	5-7	8 6	TOTAL	MEAN CLOUD COVER
N	.4	.0	.9	2.0		6.8
NE		.0	.2	. 1		6.5
E	.0	.0	. 2	.7		7.8
SE	. 5	. 9	1.4	.4		4.8
S	16.4	7.2	13.3	25.8		5,2
SW	4.7	3.6	3.6	9.0		5,2
W	.3	. 1	.3	2.3		6.9
NW	.4	.4		. 9		5.4
VAR	.0	.0	.0	.0		.0
CALM	, 9	.0	.0	3.0		6.3
TOT OBS	133	68	111	248	560	5.4
TOT PCT	23.8	12.1	19.8	44.3	100.0	

8

2.7 6.3
2.6
.4
.0
.4
.0
.10.7 .7 .3 6.0 2.2 .4 .0 .4 .63 .0 .0 .0 .0 .0 .5 .9 .0 1.4 .2 .0 .0 .0 .2 12 2.1

TABLE 7 CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING MEIGHT (NM >4/8) AND VSBY (NM)

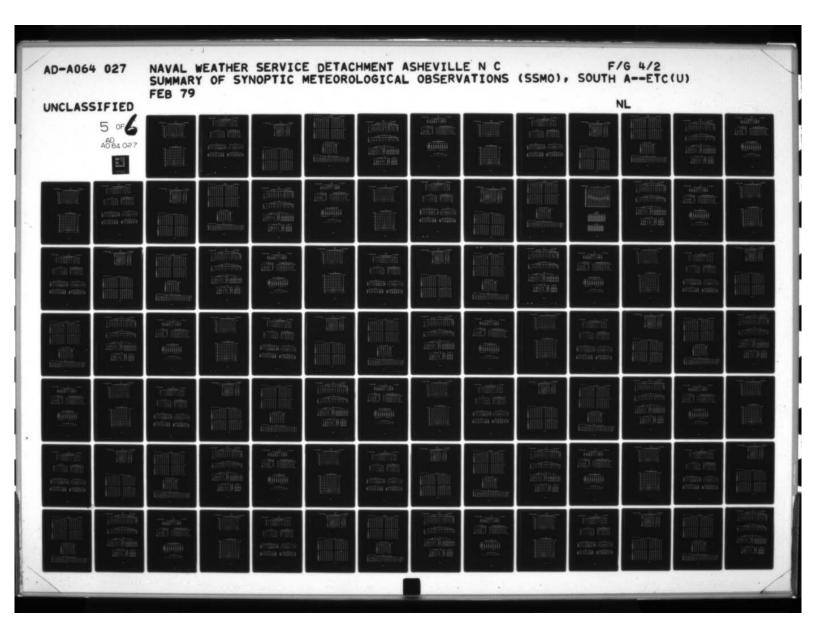
				VSBY (NI				
CEILING	• OR	- OR	· OR	• OR	- OR	- OR	- OR	= OR
(FEET)	>10	>5	>5	>1	>1/2	>1/4	>50YD	>0
■ OR >6500	1.8	2.3	2,3	2.3	2,3	2.3	2.3	2.3
■ DR >5000	2.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2
■ DR >3500	4.8	5.3	5.3	5.3	5.3	5.3	5.3	5.3
■ TR >2000	13.9	16.2	16.7	16.7	16.7	16.7	16.7	16.7
- DR >1000	35.0	41.5	42.3	42.3	42.3	42.3	42.3	42.3
■ TR >600	42.6	51.4	52.8	52.8	52.8	52.8	52.8	52.8
■ DR >300	44.9	54.9	56.3	56.3	56.3	56.3	56.3	56.3
■ DR >150	45.1	55.1	56.5	56.5	56.5	56.5	56.5	56.5
- DR > 0	45.6	55.6	57.2	57.2	57.2	57.2	57.2	57.2
TOTAL	259	316	325	325	325	325	325	325

TUTAL NUMBER OF DBS1 568

PCT FREQ NH 45/81 42.8

TABLE 7A PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

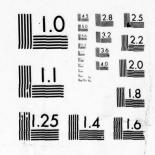
3 11.2 11.2 7.2 7.8 5.0 4.3 5.0 8.2 40.2



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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-4

	08	

							DC.	TUBER					
(PRIMARY) 1 (DVER-ALL) 1	908-1977 864-1977						TA	BLE 8				ARE	A 0029 COQUIMBO 28.55 72.1
		PE	RCENT	PREC	DF WIN	D DIRE	CTION TH VAR	VS DCC	URRENC ALUES	E OR N	IBILI	CURRENC	E OF
VSBY (NM)		N	NE	E	SE	5	SW		NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT \$. 1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	PCP	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.5	
2<5	NO PCP	.5	.0	.0	.0	.1	.4	.0	.1	.0	.3	1.5	
	TOT %	.5	.0	.0	.0	.5	.6	.0	•1	.0	.3	2.0	
	PCP	.1	.0	.0	.0	.4	.1	.0	.0	.0	.0	.7	
5<10	NO PCP	1.7	.4	.3	.4	11.6	4.6	.,	1.4	.0	1.1	22.4	
	TOT \$	1.8	.4	.3	.4	12.1	4.7	.9	1.4	.0	1.1	23.1	
	PCP	.0	.0	.0	.0		•	.0	.0	.0	.0	.4	
10+	NO PCP	2.1	.2	• •	2.3	48.1	15.0	2.2	1.3	.0	2.6	74.2	
	TOT *	2.1	.2	.4	2.3	48.5	15.0	2,2	1.3	•0	2.6	74.6	
	TOT OBS							-					732
	TOT PCT	4.6	.6	.7	2.6	61.2	20.3	3.1	2.9	.0	4.0	100.0	

VSBY	SPD	N	NE	E	SE	\$	SW	W	NW	VAR	CALM	PCT	TOTAL
(NM)	KTS Q-3	.0	•0	.0	.0	•0	.0	.0	.0	.0	.0	.0	085
<1/2	4-10	.0	.0	.0	.0	.1	.0	.0		.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT *	.0	•0	.0	.0	•1	.0	.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.0	.0	.0	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.1	.0	.0	.0	•1	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10		.0	.0	.0	.1	.1	.0		.0		.4	
	11-21	.0	.0	.0	.0	•1	.0	.0	.0	.0		•1	
	22+	.0	•0	.0	.0	.0	.0	.0	.0	.0		•0	
	TOT %	•	•0	•0	•0	.5	.1	.0		.0	.1	.6	
	0-3	.0	.0	.0	.0	.2	.1	.0	.0	.0	.9	1.2	
2<5	4-10	.4	.0	.0	•	.6	.6	.0	.1	.0		1.6	
	11-21	.0	•0	•0	.0	.3	.2	.0	.0	.0		.5	
	ZZ+ TOT %	.0	.0	.0	.0	1.1	:1	:0	.0	:0	.9	3.4	
_	0-3	.0	.1	.0		1.2	.4	.2	.2	.0	1.4	3.6	
5<10	4-10	.5	.2	. 1	.2	4.2	2.7	.7	. 8	.0		9.3	
	11-21	1.0		.1	.1	4.4	1.1	.0	.2	.0		6.9	
	22+	.0	•0	.0		1.8	.1	.0	.0	.0		1.9	
	TOT \$	1.4	.3	.2	.4	11.5	4.3	.9	1.3	.0	1.4	21.8	
	0-3	. • •	.0	.2	•1	1.5	8	.5	.7	.0	3.8	7.9	
10+	4-10	1.3	• 1	.0	. 8	14.5	7.3	1.4	.6	.0		26.0	
	11-21	.4	•1	.0	. 4	23.4	7.1	.5	.3	.0		32.2	
	22+	.0	•0	•1	. • 4	6.0	1.3	.0	0	.0		7.9	
	TOT \$	2.1	.3	.3	1.7	45.5	16.6	2.3	1.5	.0	3.6	74.0	
	OT ORS												1038
1	OT PET	4.1	.6	.5	2.2	58.5	21.9	3.2	2.9	.0	6.2	100.0	

-	_	_	_	_	_	
10						

PERIOD: (PRIMARY) 1908-1977 (OVER-ALL) 1864-1977

TABLE 10

AREA 0029 COQUIMBO 28.55 72.1W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150 299	300 599	600	1000	2000	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
£0300	.0	.0	2.1	9.0	24.1	11.0	1.4	1.4	.7	1.4	51.0	49.0	145
90300	.7	.0	5.1	12.5	24.3	8.1	2.9	1.5	.0	2.2	57.4	42.6	136
12615	.7	.7	5.4	10.8	31.8	17.6	2.0	.0	.0	2.0	70.9	29.1	148
18621	1.3	.0	1.3	9.3	20.0	8.0	2.0	.7	.0	2.7	45.3	54.7	150
TOT	.7	1	3.5	10.4	145	65	12	.9	.2	12	325	254	579

TABLE 11

TABLE 12

		PERCENT	FREQUENCY	VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.0	.4	.4	.9	17.0	80.6	227	00603	.0	2.1	11.3	41.1	47.5	141
06609	.0	.0	1.1	6.0	20.7	72.3	285	06809	. 8	6.1	19.7	39,4	40.9	132
12615	.0	.4	.4	3.5	22,6	73.0	230	12815	.7	6.8	18.9	52.0	29.1	148
18621	.3	.0	.3	2.6	24.8	71.9	306	18821	1.4	2.7	12.9	33,3	53.7	147
TOT	.1	.2	.6	35 3.3	227	777	1048	TOT	.7	25	89 15.7	236	243 42.8	568

TARIE 13

TARLE 1

	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY THMP								TOTAL	PCT	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	•0		:1	1.2	.0	.0	•0	16	2:4	.0	.0	.0	.0	1.4	•0	.0	.0	.0	•0
55/59	.0	.0	.0	.4	3.1	8,4	6.5	1.0	132	19.5	3.0	.2	.4	.7	10.8	4.4	.9	.,	.0	.6
50/54	.0	.0	.0	.0	.1	16.7		2,7	53	70.1	2.7	.1	.0	2.6	42.8	1,6	1.7	2.0	.0	3.7
PCT	.0		.1	1.2	8.3	26,5	47.9	16.0	676	100.0	4.6	.9	.9	3.5	59.8	19.9	3.0	3.1	.0	4.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	64	63	61	57	54	52	51	57.4	606
06609	64	62	60	56	53	52	47	56.6	1048
12615	66	64	61	57	54	52	51	57.3	581
18821	75	69	66	60	56	54	52	60.3	1162
TOT	75	67	64	58	54	52	47	58.1	3397

TABLE 16

OCTUBER

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1864-1977

TABLE 17

AREA 0029 CDQUIMBD 28.55 72.1W

PCT FREQ OF AIR	TEMPERAT VS	AIR-SI	G F)	MPER	THE ATURE	DIFF	RENCE D	F FDG (W	ITHOUT	PRECIPITATION)
	AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65	69 72	TOT	FOG	FOG

AIR-SEA THP DIF	52	53 56	57 60	61	68	69 72	TOT	FOG	FOG
17/19	:0	:0	:0	.0	.7	:1	1	.0	1:0
9/10	.0	.0	.1	.4	.3	.0		.0	. 9
7/8	.0	.0	:1	.7	. 3	.0	6 8 9 7	.0	1.2
6	.0	.0	.0	.9	:0	.0	9	.0	1.3
5	.0	.0	.0	1.0	.0	,0	7	.0	5.3
4	.0	.4	3.1	1.6	.3	.0	37	.1	5.3
3 2 1	.0	1.0	3.4	1.5	.0	.0	40	.0	5.9
2	.0	.7	6.1	1.9	.1	.0	60	.0	8,9
1	.0	3.4	5.6	1.3	.0	.0	70	.1	10.3
-1	.1	8.6	8.8	.7	.0	.0	123	.3	18.0
-1	.0	5.1	9.4	.4	.0	.0	100	.4	14.4
-2	.0	5.3	5.8	.3	.0	.0	77	.0	11.4
-3	.0	4.3	4.9	.1	.0	.0	63	.0	9.4
-4	.9	3.6	1.9	.1	.0	.0	44	.0	6.5
-5	.0	1.6	.3	.0	.0	.0	13	.0	1.9
-6	.1	.7	.0	.0	.0	.0	6 2	.1	.7
-7/-8	.1	.1	.0	.0	15	.0	2	.0	.3
TOTAL	9		335	-	19			8	665
00-		236		. 76		.3	673		
PCT	1.3	35.1	49.8	11.3	2.2	. 3	100.0	1.2	98.8

PERIOD: (DVER-ALL) 1963-1977

TABLE 18

				PC	T FREQ OF	MIND	SPEED	(KTS)	AND DIRE	CTIUN V	ERSUS S	EN HELD	HTS (FT)		
				N								22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21		34-47	48+	PCT
< 1	.0	2.5	1.1	.0	.0	.0	.6		.0	.0	.0	.0	.0	.0	.0
1-2	.2	2.5	1.1	.0	.0	.0	3,9		.0	.1	.4	.0	000000000000000000000000000000000000000	.0	.5
3-4	.0	.3	.0	.0	.0	.0	.30000000000000000000000000000000000000		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7 8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.00	.0	•0	.0	.0	.0		.0	000000000000000000000000000000000000000	.0	.0	.0	.0	.00000000000000
13-10	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.5	1.1	•0	.0	•0	4,9		.0	.1	.4	•0	.0	.0	.5
				F								**			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.3	.2	.0	.0	.0	.0	. 5
1-2	.0	.0	.0	.0	.0	.0	.0		.0	.2	.0	.0	.0	.0	. 2
3-4	.0	.0	.0	.0	.0	.0	.0		.0	. 2	. 2	.0	.0	.0	. 3
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.6	.0	.0	.0	.6
7	.0	-0	.0	.0	.0	.0	.0		.0	.0	.6	.0	.0	.0	.6
8-9 10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	. 0		.0	:0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.52.36.63.60.00.00.00.00.00
49-60	.0	. 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	- 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
TOT PCT	.0	.0	.0	•0	.0	.0	.0		,3	.5	1.3	1.0	.0	.0	3.1

PERIOD: (OVER-ALL) 1962-1977 TABLE 18 (CONT) AREA 0029 COQUIMBO TABLE 18 (CONT) TABLE 18 (CONT) AREA 0029 COQUIMBO TABLE 18 (CONT) PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 1.9 3.3 .0 .0 .0 .0 .5.2 .1 1.1 .0 .0 .0 .0 .0 .0 1.1 1.2 1.2 1.3 4.4 3.9 .0 .0 .0 .0 .9 .6 .3 5.2 1.6 .0 .0 .0 .0 .0 7.1 3-4 .0 5.0 10.4 .3 .0 .0 15.7 .0 2.6 3.4 .3 .0 .0 .0 6.3 5-6 .0 .8 10.4 1.9 .0 .0 15.7 .0 2.6 3.4 .3 .0 .0 .0 6.3 5-6 .0 .8 10.4 1.9 .0 .0 13.1 .0 .2 3.3 .1 .0 .0 .0 6.3 5-6 .0 .8 10.4 1.9 .0 .0 8.5 .0 .7 .1 .2 .0 .0 1.0 8-9 .0 .0 2.5 5.8 2.4 .0 .0 8.5 .0 .7 .1 .2 .0 .0 1.0 8-9 .0 .0 2.8 2.4 .6 .0 5.6 .0 .0 3.9 .0 .0 1.2 10-11 .0 .0 .8 1.2 .0 .0 2.0 .0 2.0 .0 .0 .2 1.1 .0 .0 1.2	SOUTH STATE
TABLE 18 (CONT) PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) HGT 1=3 4-10 11=21 22=33 34=47 48+ PCT 1=3 4-10 11=21 22=38 34=47 48+ PCT 41 1.9 3.3 .0 .0 .0 .0 5.2 .1 1.1 .0 .0 .0 .0 .0 1.1 1.1 1.2 1.3 4.4 3.9 .0 .0 .0 9.6 .3 5.2 1.6 .0 .0 .0 .0 7.1 3.4 .0 5.0 10.4 .3 .0 .0 15.7 .0 2.6 3.4 .3 .0 .0 6.3 5.6 .0 .0 8 10.4 1.9 .0 .0 13.1 .0 .2 3.3 .1 .0 .0 3.6 7 .0 2.6 3.4 .3 .0 .0 3.6 7 .0 2.6 3.5 .0 .7 1.1 2.0 .0 1.0	
PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) HGT 1-3 4-10 11-21 22-33 34-47 48+ PCT 1-3 4-10 11-21 22-33 34-47 48+ PCT 41 1.9 3.3 .0 .0 .0 .0 5.2 .1 1.1 .0 .0 .0 .0 .0 .0 1.1 1.2 1.3 4.4 3.9 .0 .0 .0 .0 9.6 .3 5.2 1.6 .0 .0 .0 .0 .7.1 3-4 .0 5.0 10.4 .3 .0 .0 15.7 .0 2.6 3.4 .3 .0 .0 6.3 5-6 .0 .8 10.4 1.9 .0 .0 13.1 .0 .2 3.3 .1 .0 .0 6.3 5-6 .0 .8 10.4 1.9 .0 .0 13.1 .0 .2 3.3 .1 .0 .0 3.6 7 .0 .2 5.4 2.4 .0 .0 8.5 .0 .7 .1 .2 .0 .0 1.0	
HGT 1=3 4-10 11=21 22=33 34=47 48+ PCT 1=3 4-10 11=21 22=33 34-47 48+ PCT 41 1.9 3.3 .0 .0 .0 .0 5.2 .1 1.1 .0 .0 .0 .0 .0 1.1 1.2 1.3 4.4 3.9 .0 .0 .0 .0 9.6 .3 5.2 1.6 .0 .0 .0 .0 7.1 3-4 .0 5.0 10.4 .3 .0 .0 15.7 .0 2.6 3.4 .3 .0 .0 6.3 5-6 .0 .8 10.4 1.9 .0 .0 13.1 .0 .2 3.3 .1 .0 .0 .0 3.6 7 .0 .2 5.4 2.4 .0 .0 8.5 .0 .7 .1 .2 .0 .0 1.0	
41 1.9 3.3 .0 .0 .0 5.2 .1 1.1 .0 .0 .0 .0 .0 .1 .1 1-2 1.3 4.4 3.9 .0 .0 .0 9.6 .3 5.2 1.6 .0 .0 .0 .0 7.1 3-4 .0 10.4 .3 .0 .0 15.7 .0 2.6 3.4 .3 .0 .0 6.3 5-6 .0 .8 10.4 1.9 .0 .0 13.1 .0 .2 3.3 .1 .0 .0 3.6 7 .0 .2 5.8 2.4 .0 .0 8.5 .0 .7 .1 .2 .0 .0 1.0	
41 1.9 3.3 .0 .0 .0 5.2 .1 1.1 .0 .0 .0 .0 .0 .1 .1 1-2 1.3 4.4 3.9 .0 .0 .0 9.6 .3 5.2 1.6 .0 .0 .0 .0 7.1 3-4 .0 10.4 .3 .0 .0 15.7 .0 2.6 3.4 .3 .0 .0 6.3 5-6 .0 .8 10.4 1.9 .0 .0 13.1 .0 .2 3.3 .1 .0 .0 3.6 7 .0 .2 5.8 2.4 .0 .0 8.5 .0 .7 .1 .2 .0 .0 1.0	
3-4 0 5.0 10.4 3 0 0 15.7 0 2.0 3.4 5 0 0 6.3 5-6 0 8 10.4 1.9 0 0 13.1 0 2 3.3 1 0 0 0 3.6 7 0 2 3.5 1 2 0 0 1.0	
3-4 .0 5.0 10.4 .3 .0 .0 15.7 .0 2.6 3.4 .8 .0 .0 6.3 5-6 .0 .8 10.4 1.9 .0 .0 13.1 .0 .2 3.3 .1 .0 .0 3.6 7 .0 .2 5.8 2.4 .0 .0 8.5 .0 .7 .1 .2 .0 .0 1.0	
7 .0 .2 5.8 2.4 .0 .0 8.5 .0 .7 .1 .2 .0 .0 1.0	
7 .0 .2 5.8 2.4 .0 .0 8.5 .0 .7 .1 .2 .0 .0 1.0	
8-9 .0 .0 2.4 .6 .0 5.6 .0 .0 .3 .9 .0 .0 1.2	
10-11 10 10 10 10 10 10 10 10 10 10 10 10 1	
12 .0 .0 .0 .2 .0 .0 .2 .0 .0 .1 .0 .0 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	
17-19 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
23-25 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
26-32 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
33-40 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
41-48 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
41-48 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
71-86 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
874 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
874 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
W NW TO	PCT
HGT 1-3 4-10 11-21 22-33 34-47 484 PCT 1-3 4-10 11-21 22-33 34-47 484 PCT P	PCT
41 ,3 .0 .0 .0 .0 .0 .3 .6 .0 .0 .0 .0 .0 1.3 1-2 .0 .6 .0 .0 .0 .0 .0 .6 .1 .1 .1 .0 .0 .0 .2	
3-4 .0 .3 .3 .0 .0 .0 .6 .0 .3 .3 .0 .0 .0 .6 5-6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
5-6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
7 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
3-4 0 3 3 0 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0	
12 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
13-16 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
17-19 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
17-19 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
23-25 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
26-92 10 10 17 10 10 10 10 10 10 10 10 10 10 10 10	
33-40 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0	
41-48 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
49-60 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
61-70 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
71-86 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
87+ .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	
TOT PCT 3 9 9 10 10 15 17 11 14 10 10 10 2 2 9	94.2

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	9.3	5.8	.0	.0	.0	.0	15.1	003
1-2	2.6	12.9	7.1	.0	.0	.0	22.5	
3-4	.0	8.7	14.5	.6	.0	.0	23.8	
5-6	.0	1,0	14.1	1.9	.0	.0	17.0	
7	.0	1.0	6.4	2,6	.0	.0	10.0	
8-9	.0	.0	2.9		,6	.0	7.1	
10-11	.0	.0	1.0		.0	.0	3.9	
12	.0	.0	.0	,3	.0	.0	.3	
13-16	.0	.0	.0	.3	.0	.0	,3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
874	.0	.0	.0	.0	.0	.0	.0	
						-		311
TOT PCT	11.9	29,3	46.0	12.2	.6	.0	100.0	

PERIO): (QV	ER-ALL)	194	9-1977					TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HE !!	GHT (F1	r) VS	WAVE P	ERIOD	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.9	5.6	7.7	4.2	2.9	1.7	1.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	4
6-7	.0	1.0	5.8	9.2	4.2	5.2		1.2		.0	.0	.0	.0	.0	.0	.0		.0	.0	148	6
8-9	.0	.2	1.5	5.0	4.4	4.6	4.8	. 8		.4	.0	.0	.0		.0	.0		.0	.0	120	8
10-11	.0	. 2	.4	1.5	1.9	1.0	1.5	.4		.2	.0	.0	.0	.0	.0	.0		.0	.0	41	
10-11	.0	.0	.4	.6	1.7	.6				.4	.0	.0	.2		.0	.0		.0	.0	23	9
>13	.0	.0	.0	.0	. 8	.6		.4	.2	.2	.0	.0	.0	.0	.0	.0		.0	.0	11	10
INDET		.2	1.3	1.2	2.1			.0		.0	.0	.0	.0	.0	.0	.0		.0	.0	42	. 6
TOTAL	14	37	89	113	94	75	58		15	7	0	0	i	0	0	0	0	0	0	519	6
PCT	2.7	7.1	17.1	21.8	18.1	14.5			2.9	1.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1908-1977 (OVER-ALL) 1871-1977

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TABLE 1

AREA 0029 CDQUIMBD 28.55 72.1W

DEDCENT	BREDUENCY	ne	MEATHER	DCCURRENCE	 HIND	DIRECTIO

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
N	:0	.0	7.5	.0	.0	.0	.0	7.5	10.0	.0	10.0	.0	.0	.0	72.5
NE	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	19.0	.0	.0	.0	76.2
E	.0	.0	.0	.0	.0	.0	.0	.0	20.0	20.0	.0	.0	.0	.0	60.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	4.6	.0	92.3
S	.4	.0	1.2	.0	.0	.0	.0	1.4	.8	.0	1.5	• 2	1.0	.2	94.9
SW	.1	.0	1.7	.0	.0	.0	.0	1.7	•1	.0	1.0	.1	1.0		96.0
	.0	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	96.4
NW W	.0	.0	3.2	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	96.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	.0	93.5
TOT PCT	771	.0	1.4	.0	.0	.0	.0	1.6	.9	.1	1.4	•1	1.3	.1	94.4

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHENO	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	.5	.0	1.6 3.0	.0	.0	.0	.0	1.6 3.5 .5	2.5	.0	1.1	.0 .0	1.6	.0	96.8 95.6 91.0 94.8
TOT PCT	.3	.0	1.4	.0	.0	.0	.0	1.5	,9	.1	1.4	•1	1.3	.1	94.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3	4-10	D SPE	ED (KN)	TS) 34-47	48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21
N NE	1.2	1.5	•1	.0	.0	.0		2.8	4:7	1.4	.0	1.8	3.3	5.0	:0	3.1	2.4
	.3	.4	.1	.1	,0	.0		.9	8.6	.7	.0	.2	1.7	1.4	.0	.7	.7
SE	. 8	3.1	4.2	2.1	.1	.0		10.2	14.6	9.1	16.1	9.2		9.1	6.3	10.5	10.8
S	3.4	21.4	25.2	6.2	.7	.0		57.0	12.8	59.2	50.0	61.6		53.7	75.0	54.9	56.9
SW	1.9	9.6	5.7	1.1		.0		18.3	10.2	21.9	21.4	17.3	14.0	15.8	12.5	20.3	18.2
	.9	1.7	.2		.0	.0		2.9	5.5	2.4	5.4	2.1	1.4	3,4	.0	3.4	4.8
NM M	.7	1.5	.1	.0	.0	.0		2.3	5.4	2.0	.0	2.3	3,4	1.6	.0	2.4	2.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.7							4.7	.0	2,8	7.1	4.7	5,2	7,9	6.3	3,9	3.5
TOT OBS	435	1203	1085	289	26	0	3038		11.2	532	14	512	363	519	16	768	314
TOT PCT	14.3	39.6	35.7	9.5	.9	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

• •			

WND DIR	0-6	WIND 7-16	SPEED 17-27		41+	TOTAL	PCT	MEAN SPD	00	HDU9 06 09	12 15	18 21
N	2.2	.7	.0	.0	.0		2.8	4.7	1.4	2.4	4.9	2.9
NE		.1		.0	.0		.9	4.3	.5	.9	2.1	.5
	.5	.2	3,5	•	.0		. 9	8.6	/		1.4	7
SE	2.1	3.7	3,5	1.0	.0		10.2	14.6	9.2	11.1	9.0	10.6
5	12.0	28.3	14.4	2.2	.1		57.0	12.8	59.0	39.3	54.3	55.5
SW	6.0	9.6	2,5	.2			18.3	10.2	21.9	16.0	15.7	19.7
W	2.2	.6	.1		.0		2.9	5.5	2.5	1.9	3.3	3.8
NW	1.7	.6		.0	.0		2.3	5.4	2.0	2.7	1.6	2.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	
CALM	4.7	•••	•		•		4.7	.0	2.9	4.9	7.9	3.8
TOT OBS	974	1329	626	104	5	3038		11.2	546	875	535	1082
-07 003	10 1	41 4	20.4		,		100 0			100.0		

NF	IV	F	M	R	E	R

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1871-1977

TABLE 4

AREA 0029 CDQUIMBD 28.55 72.1W

PERCENTAGE FR	COLLENGA	25	LIMO	CDEED	RV	HUITE	(CHT)

HOUR	CALM	1-3	4-10	#IND	SPEED 22-33		48+	MEAN	PCT	TOTAL
60300	2.9	7.3	38,6	38.5	11.9	.7	. 0	12.2	100.0	546
06609	4.9	9.6	35.0	37.8	11.4	1.3	.0		100.0	875
12615	7.9	12.7	40.7	30.5	7.7	.6	.0		100.0	535
18621	3.8	9.3	43.3	35.2	7.7	.7	.0	10.7	100.0	1082
TUT	142	293	1203	1085	289	26	0	11.2		3038
PCT	4.7	9.6	39.6	35.7	9.5	.9	.0		100.0	

P	CT FRE			LUUD A		(EIGHTHS)							CEILIN NH <5/					
WND DIR	0=2	3-4	5-7	8 & 085CD	TOTAL	MEAN CLOUD COVER	000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N	.2	.0	.0	.4		6.4	.0	.0	.0	.1	.2	.2	.0	.0	.0	.0	.2	
NE	. 2	.0	.2	.4		5.8	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	. 2	
E	.2	.0	.2	. 3		5.7	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	. 3	
SE	. 8	.4	1.5	1.9		5.9	.0	.0	.0	.6	.9	1.2	.3	.1	.0	.0	1.5	
S	11.5	5.1	13.2	30.0		5,9	.3	.0	.6	8.7	15.6	10.4	3.3	.5	.3	. 2	19.9	
SW	6.2	2.7	4.4	12.2		5.5		.0	.2	3.3	5.9	4.6	.4	.0	.5	. 3	10.3	
W	.7	.4	.6	1.2		5,2	.0	.0	.0	.3	.7	.3	.1	.0	.0	.1	1.4	
NW	.5	.2	.2	. 3		4.1	.0	.0	.0	.0	.2	.0		.0	.0		. 8	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	.0	.6	2.5		6.0	.0	.0	.0	.6	. 9	1.1	.2	.2	.0	.0	1.2	
TOT OBS	136	56	134	316	642	5.7	3	0	5	91	156	115	28	5	5	4	230	642
TOT PCT	21.2	8.7	20.9	49.2	100.0	•	.5	.0	. 8	14.2	24.3	17.9	4.4	.8	. 8	.6	35.8	100.0

CUMULATIVE	PCT	FREG	DF	SIMULTANEOUS	DECURRENCE
				1 >4/8) AND V	

	O. CETERIO		(1411 2410		1301 (1111)		
			(MM) YBZV				
CEILING .	DR • DR	· DR	· DR	· OR	• OR	· DR	- OR
	10 >5	>2	>1	>1/2	>1/4	>50YD	>0
. OR 36500	.6 1.1	1.4	1.4	1.4	1.4	1.4	1.4
■ NR >5000 1.	.4 1.8	2.2	2.2	2.2	2.2	2.2	2.2
■ DR >3500 5	.1 5.8	6.5	6.5	6.5	6.5	6.5	6.5
■ NR >2000 20	.3 23.4	24.3	24.3	24.3	24.3	24.3	24.3
■ OR >1000 39	.2 47.2	48.3	48.5	48.5	48.5	48.5	48.5
. OR >600 49		62.6	62.8	62.8	62.8	62.8	62.8
- DR >300 50		63.4	63.5	63.5	63.5	63.5	63.5
- OR >150 50		63.5	63.7	63.7	63.7	63.7	63.7
. OR > 0 50		63.8	64.2	64.2	64.2	64.2	64.2
	27 406	415	417	417	417	417	417

TOTAL NUMBER OF DBS: 650 PCT FREQ NH 45/8: 35.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	OBS
9.2	9.2	7.6	4.9	4.8	3.9	5,5	11.2	43.7	.0	694

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PERIC	O: (PRIMARY) (OVER-ALL)	1908-1977 1871-1977	TABLE 8 AREA OO2	9 COQUI	72.1W
			PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF		

				PREC	IPITAT	ION WI	TH VAR		ALUES	OF V13	IBILI	TY	
VSBY		N	NE	E	SE	S	SW	M	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1		. 1	. 1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	PCP	.0	.0	.0	.0	.1		.0	.0	.0	.0		
1<2	NO PCP	.0	.0	. 1	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	. 1	.0	.1	•	.0	.0	.0	.0	.3	
-	PCP	.1		.0	.0	.1	.0	.0	.0	.0	.0		
2<5	NO PCP	.1	.0	.0	.1	.6	.2	.0	.0	.0	.0		
	TOT \$.2		.0	.1	. 8	.2	.0	.0	.0	.0	1.3	
	PCP	.0	.0	.0	.0	.5	.1	;1		.0	.0		
5<10	NO PCP	.1	.1	.1	. 4	8.9	4.8	,3	.1	.0	.6		
	TOT \$.1	.1	.1	.4	9.4	4.9	.4	.1	.0	.6	16.1	
	PCP	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0		
10+	NO PCP	.9	.4	.4	3.8	48.8	20.8	2,3	. 9	.0	3.4	81.7	
	TOT \$.9	.4	.4	3,8	48.9	21.1	2,3	.9	.0	3,4	82.1	
	TOT 185												770
	TOT PLT	1.3	.7	.6	4.2	59.2	26.2	2.7	1.0	.0	4.0	100.0	

TABLE 9

			1				ND DIR				ED		
VSBY (NM)	SPD	N	NE	E	se	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT &	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.1		.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.1	.0	.1		.0	.0	.0	.0	.2	
	0-3	.1	.0	.0	.0	.2		.0	.0	.0	.0	.3	
2<5	4-10	.3		.0		.3	.1	.0	.0	.0		.8	
	11-21	.0	.0	.0	.0	.2	.2	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT \$.4		.0		. 8	.0	.0	.0	.0	.0	1.5	
	0-3		.1	.1		.5	.5	:2		.0	1.0	2.7	
5<10	4-10	.2	.0	.0	.3	3.8	2.8	.2	.2	.0		7.6	
	11-21	.0	.0	.0	.1	4.0	2.2	.2		.0		6.5	
	22+	.0	.0	.0	.2	2.3	.9	.0	.0	.0		3.5	
	TOT \$.3	•1	-1	.7	10.7	6.3	.8	.3	.0	1.0	20.2	
	0-3	.7	.1	.2	.2	2.9	1.5	.6	.2	.0	3.6	9.9	
10+	4-10	.5	.1	.1	1.7	17.3	10.8	1.7	.7	.0		32.9	
	11-21	.0	.1	.1	1.0	21.6	7.5	.2		.0		30.5	
	22+	.0	.0	.0	.2	3.0	1.3	.0	.0	.0		4.5	
	TOT \$	1.1	.3	.4	3.1	44.8	21.0	2.3	.9	.0	3.6	77.8	
	OT 085												1033
T	OT PCT	1.9	.6	.6	3.8	56.3	27.7	3.3	1.2	.0	4.5	100.0	

 0	-		

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1871-1977 TABLE 10

AREA 0029 COQUIMBO 28.55 72.1W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND DCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
20300	.0	.0	1.2	14.5	21.2	12.1	5.5	.6	1.2	.6	57.0	43.0	165
90330	.7	.0	.7	12.9	25.9	17.0	4.8	.7	.7	.7	63.9	36,1	147
12615	.6	.0	.6	13.5	30.4	21.6	2.9	.6	.6	.6	71.3	28.7	171
18621	.5	.5	.5	14.8	17.6	18.7	3.8	1.1	.5	,5	58.8	41.2	182
TOT PCT	3	.2	.8	93	157	116	4.2	. 8	.8	.6	62.7	248 37.3	100.0

TABLE 1

TABLE 12

		PERCENT	FREQUENCY	VSBY	(NM)	BY HOUR		CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AN CEILING HGT (FEET NM >4/8), BY HOUR	D/DR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL		TAL
00803	.0	.0	.4	. 9	19.4	79.3	232	00803 .0 1.3 18.4 41.1 40.5	158
90380	.0	.0	.0	1.1	20.9	78.1	278	06809 .7 1.4 14.6 50.7 34.7	144
12615	.0	.4	.4	2.5	10.9	77.8	243	12815 ,6 1.2 16.6 55.6 27.8	169
18621	.0	.3	.0	2.1	21.0	76.6	291	18821 .6 1.7 18.4 41.9 39.7	179
TOT	.0	.2	.2	17	210	813	1044		650

TABLE 13

				- 7								
	PERC	ENT FR	EQUENC	Y DF R	ELATIV	E HUMI	DITY 8	Y TEMP	TOTAL	PCT		PER
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	N
70/74	.0	.0	.0	.1	.0	.4	.3	,0	6	5.0	.0	
65/69	.0	.0	.0	.4	1.7	2.0	.9	.0	35	5.0	.0	
60/64	.0	.0	.1	.0	4.9	15.4	14.1	2,9	262	37.4	.5	
55/59	.0	.0		.0	.4		33.7	10.9	387	55.3	.6	
50/54	.0	.0	.0	.0	.0	.1	.6	.7	10	1.4	.0	
TOTAL	0	٥		4	49	198	347	101	700	100.0		
PCT	.0	.0	.1	.6	7.0	28.3	49.6	14.4			1.1	

TABLE 14

	PERCENT	FR	EQUENCY	OF	MIND DI	RECTION	BY T	EMP	
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	:0	.0	.0	2.9	1:1	:1	.0	.0	.0
.5	.2	.3	2.0	19.8	10.5	1.4	.9	.0	1.7
:0	.0	.0	1.1	34,5		1.1	.2	.0	2.4
1.1	. 8	.7	3.5	58.4	26.8	3.0	1.3	.0	4.6

TABLE 15

	MEANS,	EXTREME	S AND	PERCEN	TILES	OF TE	IP LDE	G F) E	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00803	75	66	64	59	56	54	53	59.6	535
96609	75	64	62	58	55	53	51	58.2	886
12815	77	68	64	59	55	54	50	59.4	526
18821	77	72	68	62	57	. 56	55	62.5	960
TOT	77	70	66	60	44	54	50	40.1	2907

TABLE 16

	PERC	ENT FRE	GUENCA	OF RELA	TIVE H	UMIDITY	BY HOUR	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	.0	.6	4,5	27.8	51.7	15.3	82	176
90300	.0	.0	1.2	24.1	58.2	16.5	84	170
12615	.0	.0	6.1	23.9	52.8	17.2	83	180
18821	.0	2.2	15.2	37.0	36.4	9.2	78	184
TOT	0	5	49	201	352	103	82	710

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NOVEMBER

PFRIOD: (PRIMARY) 1908-1977 (CVER-ALL) 1871-1977

TABLE 17

AREA 0029 CDQUIMBD 28.55 72.1W

Williams Charles		10000		0.00	100	533.5	1200	100000				
AIR-SEA TMP DIF	52	56	57 60	64	68	72	76	80	707	FOG	FOG	
14/16	.0	.0	.0	.0	.0	.3	.0	.0	2	.0	.3	
11/13	.0	.0		.0	. 1	.0	.0	.0	1	.0	.1	
9/10	.0	.0		.1	1.3	.1	.0	.0	11	.0	1.6	
7/8	.0	.0		.4	.6	.1	.1	.0	10	.0	1.4	
6	.0	.0	. 3	. 9	.4	.1	.0	.0	12	.0	1.7	
5	.0	.0	.7	.7	1.0	.3	.0	.0	19	.0	2.7	
4	.0	.1	.9	2.3	.6	.0	.0	.1	28	.0	4.0	
3	.0	.1	3.6	2.6	.0	.0	.0	.0	44	.0	6.3	
2	.0	.9	3.0	2.7	.4	.3	.0	.0	51	.3	7.0	
1	.0	1.7	6.6	3.9	.3	.0	.0	.0	87	.3	12.2	
0	.0	2.7	9.7	3.9	.1	.0	.3	.0	117	.1	16.6	
-1	.1	2.6	9.0	3.9	.1	.0	.0	.0	114	.1	16.2	
-2	.0	2.0	7.9	1.6	.0	.0	.0	.0	80	.3	11.2	
-3	.0	.9	4.9	.6	.1	.0	.0	.0	45	.1	6.3	
-4	.0	.6	3.9	.9	.0	.0	.0	.0	37	.0	5.3	
-5	.1	.7	1.6	.6	.0	.0	.0	.0	21	.0	3.0	
-6	.0	.3	1.1	.0	.0	.0	.0	.0	10	.0	1.4	
-7/-8	.0	.1	.4	.0	.0	.0	.0	.0	4	.0	.6	
-9/-10	.0	.1	.4	.0	.0	.0	.0	.0	4	.0	.6	
-11/-13	.0	.0	.1	.1	.0	.0	.0	.0	2	.0	.3	
TOTAL	2		383		36		3			9	690	
		90		175		9		1	699			
PCT	.3	12.9			5.2	1.3	.4	.1	100.0	1.3	98.7	

PERIOD: (DVER-ALL) 1963-1977

TABLE 18

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND D	IREC	TION V	ERSUS S	EA HEIG	HTS (FT)			
HGT	1-3	4-10 .3	11-21	N 22-33	34-47	48+	PCT		,	-3	4-10	11-21	NE 22-33	34-47	48+	PCT	
<1	.0	.3	.0	.0	.0	.0	. 3			.3	.0	.0	.0	.0	.0	. 3	
1-2	.0	. 3	.0	.0	.0	.0	, 3			.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0			.0	.0	.3	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.c	.0	.0			.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.000000	.0	.0	.0	.0	.0.00	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
23-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
61-70 71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+ TOT PCT	.0	.0	.0	.0	.0	.0	330000000000000000000000000000000000000			.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0	
TOT PCT	.0	.5	.0	•0	.0	.0	.5			.3	.0	.3	.0	.0	.0	.5	
				•									SE				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1	-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.0	.0	.0	.0	.0	,3			.0	:7	.0	.0	.0	.0	.3	
1-2	.0	.3	.0	.0	.0	.0	. 3			.0	.7	.0	.0	.0	.0	.3	
3-4	.0	.3	.0	.0	.0	.0	.3			.0	.3	.2	.0	.0	.0	.5	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.3	.1	.0	.0	.0	.5	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	:0	.5	.0	.0	.0	.5	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
12 13-16 17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
26-32 33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
61-70 71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.3.3.0000000000000000000000000000000000			.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0	
TOT PCT	.3	.5	.0	.0	.0	.0				.0	1.0		.0	.0	.0	2.4	

PERIODI	LOVE	-ALL 1	1963-1	077				NOVEMBER				APFA	0029	COULTER	n
PEK1001	LUVE	-ALL!	1703-1					TABLE 18 (CONT	,			AKLA	28.		.1W
				PC	T FREQ	OF WIND	SPEED	(KTS) AND DIRE	TION V	ERSUS S	EA HEIG	HTS (FT			
				5							22-33				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21		34-47	48+	PCT	
<1	1.2	2.0	.0	.0	.0	.0	3,1	5	. 9	3	.0	.0	.0	8.7	
1-2	1.2	12.6	2.7	.0	.0	.0	21.2	1.2	3.1	2.0	.0	:0	.0	5.1	
5-6	.0	7.5	13.2	.5	.0	.0	13.0	.0	.3	2.3	.0	.0	.0	2.7	
7	.0	:7	3.6	1.8	.0	.0	5.7	.0	.3	2.3	1.3	.0	.0	4.0	
8-9	.0	.0	3.3	1.3	.0	.0	1.6	.0	.0	.3		0	.0	.3	
10-11	.0	.0	.0	1.8	.0	.0		.0	.0	.3	.0		.0	.3	
12	.0	0	.0	.9	.0	.0	9	.0	.0	.0	:4		.0	.4	
13-16	.0	.0	1.2	.3	.0	.0			.0	.1	.0	.0	.0	. 1	
17-19	.0	.0		.0	.0	.0	.2	.0	.0	.1	.0		.0	.1	
20-22	.0	.0	.0	.3	.0	.0	. 3	.0	.0	.0	.0	0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	,0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
OT PCT	2.6	22.9	32.4	6.8	.0	.0	64.6	1.6	10.5	9.2	1.8	:0	.0	23.2	
				w							NW				TOTA
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.5	.0	.0	.0	.0	.7	.0	.8	.0	.0	.0	.0	. 8	
1-2	.0	1.0	.2	.0	.0	.0	1.2	.0	.5	.1	.0	.0	.0	.6	
3-4	.0	.5	.3	.0	.0	.0	. 8	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	
26-32 33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	:0	.0	.0	
40-40	.0	.0	.0	.0	:0	.0	:0	.0	:0	.0	.0	:0	.0	:0	
49-60															
61-70	.0								0			.0		0	
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(PT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.4	4.6	. 3	.0	.0	.0	11.3	UP3
1-2	3.3	22.0	4.6	.0	.0	.0	29.0	
3-4	.0	11.5	15.6	. 5	.0	.0	27.7	
5-6	.3	1,3	13.3	1.0	.0	.0	15.9	
7	.0	. 5	6.4	3.1	.0	.0	10.0	
8-9	.0	.0	.5	1,3	.0	.0	1.8	
10-11		.0	.3		.0	.0	1.0	
12		.0		1.3	.0	.0	1.3	
13-16		.0	0	1,3	.0	.0	1.5	
	0	• 0	1.3		.0	.0		
17-19		.0	.3	.0	.0	.0	.3	
20-22		.0	.0	, 3	.0	.0	.3	
23-25		.0	.0	.0	.0	.0	.0	
26-32	0	.0	.0	.0	.0	.0	.0	
33-40		.0	.0	.0	.0	.0	.0	
41-48		.0	.0	.0	.0	.0	.0	
49-60		.0	.0	.0	.0	.0	.0	
61-70		.0	.0	ŏ	.0	.0	.0	
71-86		.0		.0	.0	.0		
874			.0				.0	
0/4		.0	.0	.0	.0	.0	.0	
					-		202 2	390
TOT PE	T 10.0	39.0	42.6	8,5	.0	.0	100.0	

PERIOD	12 (DV	ER-ALL	195	0-1977	•				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HE1	GHT (F	T) VS	WAVE P	ERIDO	(SECON	DS)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10=11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.8	6.1	7.3	6.5	2.3	.7	.7	.5	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	164	4
6-7	.5	1.5	5.3	11.6	7.1	2.2	2.5	1.0		.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	197	6
8-9	.0	. 8	1.2	4.8	7.3	1.8	1.2	.7	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	112	7
10-11	.0	. 8	1.2	1.7	1.3	2.0		.5	.5	.0	.0	.0	.0	.0	.0	.0	.0		.0	64	7
12-13	.0	.0	.7	.5	.0	.7	1.3	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0		.0	22	8
>13	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0		.0	.0		.0	3	13
INDET	.5	1.2	.3	2.0	1.8	.3	.3	.0	.0	.2	.0	.0	.0	.0		.0	.0		.0	40	- 5
TOTAL	17	63	96	163	120	46	52	18	19	5	3	Ö	ŏ	0	0	. 0	0	0	0	602	6
PCT	2.8	10.5	15.9	27.1	19.9	7.6		3.0	3.2		.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1909-1976 (OVER-ALL) 1868-1976

TABLE 1

AREA 0029 COQUIMBD 28.55 71.9W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
-WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	.0	.0	6.0	.0	.0	.0	.0	6.0	.0	.0	.0	.0	.0	.0	94.0
NE	.0	.0	2.5	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	97.5
E SE	.0	.0	.0	.0	. C	.0	.0	.0	.0	.0	.0	28.6	.0	.0	71.4
SE	3.1	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	96.9
S	.0	.0	1.1	.0	.0	.0	.0	1.1	.2	.0	1.1	.0	.7	.0	96.9
SW	.0	.0	. 8	.0	.0	.0	.0	.8	.5	.0	. 8	.0	1.4	.0	96.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	5.6	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	94.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	5.0	.0	.0	.0	90.0
TOT PCT TOT OBS:	842	.0	1.4	.0	.0	.0	•0	1.5	.2	.0	1.1	•1	.7	.0	96.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00403 90300	.0	•0	1.7	.0	.0	•0	•0	1.7	.0	.0	1.7	:0	1.0	:0	98.4 96.1
12615 18621	.5	.0	2.7	.0	.0	.0	.0	3.2 1.0	.9	.0	1.4	.0	.9	:0	93.6 97.1
TOT PCT TOT OBS:	853	•0	1.5	.0	•0	•0	•0	1.6	•2	.0	1.1	•1	.7	.0	96.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

								.01000000000000000000000000000000000000									
WND DIR	0-3	w11	11-21	22-33	34-47	48+	TOTAL	PCT	MEAN	00	03	06	HOUR 09	(GMT)	15	18	21
							OBS	FREQ	SPD								
N	1.4	2.0	.3	.2	.0	.0		3.8	6.2	1.7	4.2	2,3	5,3	7.1	5.3	4.0	2.5
NE	.3	.7	.1		.0	.0		1.2	5.2	.5	.0	.3	1.6	2.4	2.6	1.2	
E	.3	.2	.1	.0	.0	.0		.7	5.7	.1	.0	.3	1.8	1.1	2.6	.6	.3
SE	1.0	2.9	3.9	.5		.0		8.3	11.6	6,5	9.4	7.5	10.4	8.8	2.6	9.4	7.8
S	4.3	25.5	24.6	4.5	.4	.0		59.3	11.8	63.7	67.7	64.6	55.3	55.1	44.1	56.8	61.2
SW	1.8	9.1	4.9	.7		.0		16.5	9.6	21.1	14.6	14.9	14.5	11.5	32.2	17.9	16.9
W	1.1	1.2		.1	.0	.0		2.4	4.9	1.4	.0	2.4	2,3	2.4	6.6	3.1	2.8
NW	.9	1.6	.2		.0	.0		2.7	5.7	1.5	.0	2.9	2.5	2.7	1.3	3.0	4.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0	3,5	4.2	4.8	6,3	9.0	2.6	4.1	3.3
TOT OBS	487	1302	1027	180	14	0	3010		10.2	514	24	547	380	500	38	702	305
TOT PCT	16.2	43.3	34.1	6.0	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	0=6	WIND 7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	HDU1 06 09	12 15	18 21
N_	2.7	.9	.1	.1	.0		3.8	6.2	1.8	3.6	7.0	3.5
NE	.9	.2	•	.0	.0		1.2	5.2	.5	.8	2.4	1.1
	.5	.2		.0	.0		.7	5.7	.1	.9	1.2	.5
SE	2.0	4.2	2.1		.0		8,3	11.6	6.6	8.7	8.3	8.9
5	14.6	30.0	13.0	1.6	.1		59.3	11.8	63.9	60.8	54.3	58.1
SW	6.0	8.3	2.0	.2			16.5	9.6	20.8	14.7	12.9	17.6
W	2.1	.3			.0		2.4	4.9	1.3	2.4	2.7	3.0
NW	1.9	.7			.0		2.7	5.7	1.4	2.7	2.6	3.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1				-		5.1	.0	3.5	5.4	8.6	3.9
TOT OBS	1074	1348	525	61	2	3010		10.2	538	927	538	1007
TOT PCT	35.7	44.8	17.4	2.0	.1	(Fig. 163a)	100.0		100.0	100.0	100.0	100.0

			R

PERIODI	(PRIMARY)	
	(UVER-ALL)	1868_1974

TABLE 4

AREA 0029 COQUIMBO 28.55 71.9W

PERCENTAGE	FREDUENCY	-	LITHE	CREEN	-	HOUR	

					SPEED (PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	085
00603	3.5	6.9	40.9	40.1	8.0	.6	.0	11.6	100.0	538
90300	5.4	10.6	41.3	34.8	7.6	.3	.0		100.0	927
12615	8.6	12.5	42.9	31.8	3.9	.4	.0	9.1	100.0	538
18621	3.9	13.0	46.5	31.5	4.6	.6	.0	9.6	100.0	1007
TOT	154	333	1302	1027	180	14	0	10.2		3010
PCT	5.1	11.1	43.3	34.1	6.0	.5	.0		100.0	

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				4006 >														
•	CT FRE			LOUD A		(EIGHTHS)							CEILIN NH <5/					
WND DIR	0=2	3-4	5-7	8 6	TOTAL	COVER	000 149	150 299	300 599	999	1000	2000 349	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.3	.2	1.5	1.5		6,5	.0	.0	.4	.4	.7	.6	.0	.3	.0	.0	1.1	
NE	. 3	. 2	.2	. 4		5,1	.0	.0		. 2	.2	.0	.0	.0	.0	.0	.6	
E	.0	.0	.2	.0		5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
SE	. 8	.3	1.1	1.8		5.7	.0	.0	.0	.2	. 8	.8		.0	.2	.0	2.0	
5	18.4	5.0	12.6			5.0	.3	.2	. 9	7.4	14.5	6.1	1.9	. 5	.1	.2	27.5	
SW	5.6	1.8	5.1	8.2		5,2		.3	.2	2.9	5.4	2.2		. 2		.0	9.1	
2"				1.3		5,5	.0	.0	.0	.3	1.1	4	• 5	.0	.0	.0	1.0	
NW	• .	• 1	.7	1.2		6.1	.0	.0	.2		***	• • •	• • •	.0	.0	.0	***	
	• • •	.0	100	1.2		•••			.0		• • •	-	• • •				• *	
VAR	.0	.0	•0	.0		- • •	.0	.0		.0	.0	.0	,0	.0	.0	.0	.0	
CALM	1.6	.6	• 2	3.5		3,4	.0	.0	,2	. 8	1.3	.6	.5	.0	.0	.0		
TOT 085	176	51	140	261	628	5,2	2	3	12	77	157	68	19	6	2	1	281	628
TOT PCT	28.0	8.1	22.3	41.6	100.0		.3	.5	1.9	15.3	25.0	10.8	3.0	1.0	.3	.2	44.7	100.0

TABLE 7

CUMULATIVE PCT FREQ DF SIMULTANEOUS OCCURRENCE OF CEILING MEIGHT (NM >4/8) AND YSBY (NM)

				VSBY (NM)			
CEILING	• OR	- DR	· DR	• OR	· GR	- OR	· DR	- OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>5040	>0
- OR >6500	.2	.5	.5	.5	.5	.5	.5	.5
■ DR >5000	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
■ DK >3500	3.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2
- OR >2000	12.7	14.6	15.3	15.3	15.3	15.3	15.3	15.3
. DR >1000	34.9	39.6	40.6	40.7	40.7	40.7	40.7	40.7
■ DR >600	44.5	51.6	52.7	52.8	52.8	52.8	52.8	52.8
■ NR >300	45.8	53.3	54.6	54.7	54.7	54.7	54.7	54.7
- OR >150	46.1	53.8	55.0	55.2	55.2	55.2	55.2	55.2
- OK > 0	40.1	53.8	55.2	55.3	55.3	55.3	55.5	55.5
TOTAL	292	362	251	352	352	352	252	252

TOTAL NUMBER OF DBS1 636

PCT FREQ NH <5/81 44.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 OBSCO TOTAL
15.1 9.3 8.6 5.3 4.6 4.6 6.6 8.3 37.3 .3 697

PERIODI		909-1976 868-1976						TAB	LE 8				ARE		COQUIMBO 3.55 71.90
			PE	RCENT	PREC I	F WIND	DIREC ON WIT	TIUN V	ING VA	RRENC	E OR N	IBILIT	URRENC Y	E DF	
	VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL	
	<1/2	PCP NO PCP TOT \$.0	.0	.0	.0	.2	.0 .1	.0	.0	.0	.0	.2		
	1/2<1		.0	.0	.0	.0	:0	.0	:0	.0	.0	:0	.0		
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	1<2	NO PCP	:1	:	.0	.0	.0	.0	.0	:0	.0	.0	:1		

000 #66 055 .0 .0 .6 .6 .6 .0 .0 .0 .0 .0 .0 .1 .1 .0 .0 .2 .4 .6 .0 2.8 2.8 .0 .9 .9 .4 8.1 6.5 .0 .0 .0 .0 .0 .0 .0.0 .6 16.9 2.6 49.3 49.6 1.9 .0 TOT DES 3.5

3.9 59.2 21.8

1.2

TABLE 9

3,2 2.1 .0

PCT TOTAL (DBS)

.0
.0
.1
.1
.2
.0
.0
.0
.0
.0
.0
.0
.0
.0
.1
.4
.7
.7
.4
.2
.2
.1
.7
.9
.6
.6
.7
.7
.17
.1
.1
.1
.1
.1
.3
.2
.30
.9
.5
.2
.80
.5 NW .000.00 .00 VSBY (NM) KTS (NM) KTS (NM) KTS (O-3 4-10 11-21 22+ TOT \$

1/2<1 4-10 11-21 22+ TOT \$

1<2 4-10 11-21 22+ TOT \$

2<5 4-10 11-21 22+ TOT \$

5<10 0-3 4-10 11-21 22+ TOT \$

5<10 11-21 22+ TOT \$

5<10 11-21 22+ TOT \$ CALM .00.00 000000 000000 000000 111+02 .1 .7 1.3 .0 2.0 .0 TOT OBS 1.3 .3 3.1 60.2 21.1 3.0 2.1 .0 5.0 100.0

D				

PER [001	(PRIMARY)	1909-1976 1868-1976	
	(QVER-ALL)	1808-1976	

TABLE 10

AREA 0029 COQUIMBO 28.55 71.9W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND	PERCENT	FREQUENCY	OF CEILING	HEIGHTS	SEET, NH	>4/8)	DNA
--	---------	-----------	------------	---------	----------	-------	-----

HOUR (GMT)	000	150	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	.0	.0	.6	12.5	20.6	5.6	2.5	1.3	.6	•0	43.8	56,3	160
90300	1.3	.0	1.3	9.8	28.1	9.8	3.9	1.3	.0	•0	55.6	44.4	153
12615	.0	1.1	4.5	17.5	27.1	16.9	2.8	.0	.0	.0	70.1	29.9	177
18621	.0	.6	.6	7.3	23.2	9.8	2.4	1.2	.6	.6	46.3	53.7	164
TOT	2	3	12	78	162	70	19	.9	.3	,2	355 54.3	45.7	100.0

TABLE 11

TABLE 12

		PERCENT	FREQUENCY	VSBY	(MM)	BY HOUR		CUMULAT	CEILIN	FREQ G HGT	OF RAN	GES OF Y	SBY (NM)	AND/OR
HOUR (GMT)		1/2<1		2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	DBS
00803	.0	.0	.4	1.2	14.5	63.9	242	50803	.0	.7	14.4	31.4	54.2	153
06609	.6	.0	.0	2.5	17.2	79.6	319	06609	1.4	2.7	14.9	41.9	43.2	146
12615	.0		.0	2.7	18.8	78.5	260	12615	.0	5.7	24.7	46.0	29.3	174
18621	•0		.0	2.4	16.9	80.7	296	18821	.0	1.2	8.7	38,5	52.8	161
TOT			1	25	189	900	1117	TOT	2	2.7	101	252 39.6	283	100.0

T 4		1	2

TABLE 1

				1	ABLE 1	•														
	PERCI	ENT FR	EQUENC	Y UF R	ELATIV	E HUMI	ITY BY	TEMP				PERCE	NT FRE	QUENC	Y OF W	IND DIE	ECTION	BY TI	MP	
TEMP F								90-100	DBS	FREQ	N	NE	E	SE	s	SW	W	NW	VAR	CALM
75/79	.0				.1	.0	.1	.0	4	.5	•1	.0	.0	.0	2.2	.2	.0	.0	.0	.0
70/74	.0			. 1	1.3	1,9	.5	.0	33	4.4	, • 3	.0		1.7	9.5	4.1	.6	.7	.0	.7
65/69	.0				3.5		4.8	9	142	18.9	1.8	• 2	• 1	2.1	32.9	12.3	1.2	1.4	.0	3.2
60/64	.0	.0	.0	. (1.7	20.8	26.7	6.5	418	55.7		• '	.0	4	14.5	4.2	.4		.0	.7
55/59	.0	.0	.0	. (.3	2,8	12.8	4,5	153	20.4	• •			• • •						
TOTAL	0) 0		52		337	90	720	100.0	2 7	1.1	,	4.8	59.3	21.5	2.2	2.1	.0	5.1
DCT	- 0	- 0	0	1.3	6.9	34.9	44.9	12.0			3.7	1.1		4.0						

TABLE 15

3

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TABLE 16

	MEANS,	EXTREM	S AND	PERCEN	TILES	OF TE	4P 1DE	G F) B	Y HOUR		PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY	BY HOU	R
HOUR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	HOUR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(TMD)	73	70	67	62	58	56	55	62.1	085 528	(GMT)	.0	.6	2.3	37.9	50.6	8.6	81	174
06809	72	68	65	60	56 57	55 55	53	60.6	927	12615	.0	1.0	4.2	28.2	50.2	17.2	82	192
12815	74	70 74	71	65	60	57	55	65,2	899	18821	.0	2.7	17.6	43.9	30.5	5.3	76	187
TOT	78	72	69	62	57	55	53	62.5	2888	TOT	0	,	34	204	347	•		

DECEMBER

PERIOD: (PRIMARY) 1909-1976 (QVER-ALL) 1868-1976

TABLE 17

AREA 0029 COQUIMBO 28.55 71.9W

PCT FREQ OF AIR TEMPERATURE LOEG F) AND THE DCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIF	53 56	57 60	64	68	69 72	73 76	77	TOT	FOG	FDG
14/16	.0	.0	:0	.0	.0	.0	.3	2 5	.0	.3
11/13	.0	.0	.0	.0	.4	. 3	.0	5	.0	.6
9/10	.0	.1	.4	.6	. 6	.4	.0	17	.0	2.2
7/8	.0	.0	. 8	. 8	.9	. 3	. 1	22	. 1	2.7
6	.0	.0	. 8	.8	.4	. 3	.0	13	.0	1.7
5	.0	.0	.8 1.2	1.2	.1	.3	.0	19	.0	2.2 2.7 1.7 2.4
4	.0	, 9	1.7	2.2	.6	.0	.0	37	.0	4.8 5.9 10.4 12.0
*	.0		2.4	2.2	.4	.0	.0	46	. 0	5.9
2	.0	1,8	5.8	2.6	. 4	.0	.0	82	. 1	10.4
	.3	2,8	6.2	2.6	• 3		.0	94	.1	12 0
å	.9	4.9	10.2	3.5	.1	.0	.0	152	.3	19.3
-1	:4	4,8	5.4	1.5		• •		94	• 5	19.5
1 0 -1 -2 -3 -4	• • •	***	6.9	1.5	.0000	.0	.0		.0	12.1 12.1 5.9 3.3
•2	.1	4,8	0.4	• 2	.0	.0	.0	96	• • •	12.1
	• 1	2.8	2.7	.3	.0	.0	.0	46	.0	5.9
	.1	1.5	1.4	.4	.0	.0	.0	27	. 1	3.3
-5	.0	. 8	1.2	.1	.0	.0	.0	16	.0	2.1
-6	.0	.4	.3	.0	.0	0	.0	5 2	.0	.6
-7/-8	.0	, 3	.0	.0	.0	.0	.0	2	.0	.3
-11/-13	.0	.0	.0	.1	.0	.0	.0	1	.0	. 1
-14/-16	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	15		368		.0		3		.0	.6 .3 .1 .1 769
		208		141		9		777		
PCT	1.9	26.8	47.4	18.1	4.2	1.2	.4	100.0	1.0	99.0

PERIOD: (QVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 24-32 24-32 44-48 49-60 61-70 71-86 FFT TDT FFT 1-3 1-3 4-10 70000000000000000000000 48.000000000000000000000 34-47 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 33-40 41-48 49-60 71-86 T-70 71-86 11-21 34-47 1-3 34-47 1-3 4-10 11-21 .3 .0 2.2 .9 .1 .0 .0 .0 .0 .0 .0 .0 .0 484 PCT 1.3 .5 2.5 .9 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .5 .4

									DECEMBER							_
PERIODI	COAF	K-ALL!	1963-1	976				TABLE	18 (CONT	,			AREA	28.	COQUIME 55 71	.9W
				PC	T FREQ	DF WIND	SPEED	(KTS)	AND DIRE	CTION	VERSUS	SEA HEIG	HTS (FT)			
				5								22-33				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10			34-47	48+	PCT	
<1	1.5	1.3	. 2	.0	.0	.0	3.1		.7	1.		.0	:0	.0	2.2	
1-2	.7	10.0	3,3	.0	.0	.0	14.1		.6	6.8		.0	.0	.0	8.4	
3-4	.0	6.2	14.6	.3	.0	.0	21.0		•0	1.3		.0	.0	.0	4.8	
5-6 7	.0	2.0	9.0	1.1	.0	.0	12.1		.0	•		.2	0 0 0	.0	2.8	
	.0	.2	5.9	1.3	.2	.0	7.5		.0	• 1		.3	•1	.0	.9	
8-9	.0	.3	.5	1.3	.0	.0	2.2		.0	.9		.0	••	.0	.0	
10-11	.0	.0	.2	.3	.0	.0	1.8		.0	:		.0	••	.0	.0	
	.0	.0	.5	. 8		.0			.0			.0	• •	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0		.0			.0		.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	:0		.0	:	.0	.0	•0	.0	.0	
26-32	.0	:0	.0	.0	.6	.0	.0		.0	:		.0	• • •	.0	.0	
33-40	.0	:0	.0	.0	.0	.0	:0		.0	:		.0	• 0	.0	.0	
41-48	.0	:0	.0	.0	.0	.0	.0		.0	:		:0	• •	.0	:0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	:0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	• •	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0			.0	• •	.0	.0	
87+	.0	.0	.0	.0	.0	.0	ö		.0	:		.0	• 0	.0	.0	
TOT PCT	2.3	20.0	34.2	5.1	.7	.0	62.3		1.3	10.2	6.9	.5	0 0	.0	19.1	
			• • • •	•••	•				•••		• • • • • • • • • • • • • • • • • • • •		••			
HGT	1-3	4-10	11 01	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.5	.5	11-21	.0	.0	.0			.3				.0	.0		PCI
1-2	.2	.6	.0		.0	.0	. 8		.3	1.1		.0	:0		1.5	
3-4	.0	.0	.0	.0	.0	.0	.3		.0	*:			:0	.0	.3	
5-6	.0	.2	• • •	.3	.0	.0	.2		.0	:		.0	• 0	.0	:1	
7	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	0000	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	:		:0	• 6	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	::		.0	• 0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	::	.0	.0	• 6	.0	:0	
13-16	.0	.0	.0	.3	.0	.0	.3		.0	::		.0	• 0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	.0	.0	.0	
20-22	.0	.0	.0	.0	:0	.0	ö		.0	:		.0	.0	.0	:0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	,0		.0			.0	.0	.0	:0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.:		.0	000000000000000000000000000000000000000	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	.0	.0	:0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	:		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	ō		.0	:		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0	.0	
TOT PCT	.7	1.3	.0	.5	.0	.0	2.5		. 6	1.5		.0	.0	.0	2.5	94.0

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	9.0	5.3	1.1	.0	.0	.0	15.3	003
1-2	2.6	19.8	4.2	.0	.0	.0	26.7	
3-4	.0	7.9	20.1	. 5	.0	.0	28.6	
5-6	.0	2.6	12.2	1.3	.0	.0	16.1	
7	.0	.3	6.3	1.6	. 3	.0	8,5	
8-9	.0	. 3	.5	1.3	.0	.0	2.1	
10-11	.0	.0	.3	,3	.0	.0	.5	
12	.0	.0	.5	. 8	.5	.0	1.9	
13-16	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								378
TOT PCT	11.6	36.2	45.2	6.1		.0	100.0	
TOT PCT	11.0	30.2	43.2	0.1	.•	.0	100.0	

PERIO	D1 (DV	ER-ALL) 194	9-1976					TABLE	19											
					PERCEN	FRE	QUENCY	OF WA	VE HE1	GHT (F	7) VS	WAVE P	ERIOD	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.3	3.6	9.4	5.8	3.0	1.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	152	4
6-7	.0	2.3	7.1	9.4	7.2	3.9	1.2	.3	.5	.2	.0		.0	.0	.0	.0	.0	.0	.0	195	6
8-9	.0	.3	2.1	3.9	5.3	2.8	3.5	2.5	.7	. 5	.0	.0	.0	.0	.0	.0	.0	.0	.0	131	
10-11	.0	.2	2.0	2.5	1.6	2.0	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	6
12-13	.0	.0	. 8	.5	.5	. 8	.5	1.0	. 8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	
>13	.0	.0	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	12
INDET	1.8	.8	1.8	. 8	.5	.3		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	*3
TOTAL	19	44	141	139	110	70	39	26	16		0	. 0	Ö	.0	.0	ő	.0	.0	.0	608	6
PCT	3.1	7.2	23.2	22.9	18.1	11.5	6.4	4.3	2.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908=1978 (OVER-ALL) 1855=1978 ANNUAL

TABLE 1

AREA 0029 CDQUIMBD 28.55 72.1W

PERCENT	FREQUENCY	OF	WEATHER	DCCURRENCE	BY	WIND	DIRECTION

					Ewacia	KERG	ENG.								
			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THDR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	.9	.4	3.4	.0	.0	.0	.0	4.6	3.0	.5	3.5	.0	2.7		86.0
NE	. 8	.1	3.1	.0	.0	.0	.0	4.0	.5	.0	3.6	.2	1.8	.0	89.8
E	.0	1.4	2.6	.0	.0	.0	.0	4.0	5.2	1.7	3.5	2.4	.0	.7	82.6
SE	.3	.0	.6	.0	.0	.0	.0	1.0	.9	.1	.9	• 1	1.5		95.5
S	.1		.9	.0	.0	.0		1.0	.5	.2	1.4		1.3		95.5
SW	.3		1.1	.0	.0	.0	.0	1.5	.6	.1	1.9		1.7		94.1
	.9	.5	2.3	.0	.0	.0	.0	3.4	2.3	. 9	3.0	.0	. 8	.0	89.7
NW	1.6	.2	1.9	.0	.0	.0	.0	3.4	2.0	.2	1.9	.0	.7	.0	91.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.š	.2	1.5	.0	.0	.0	.0	1.7	.9	, ž	1.6	.2	2.5	.0	93.0
TOT PCT TOT OBS:	9635	.1	1.2	.0	.0	.0	•	1.6	.9	.2	1.6	•1	1.4	.1	94.2

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	.4 .6 .2	.1	1.5 1.8 1.0	.0	.0	.0	.0	1.0 1.8 2.4 1.2	1.7	.6 .1	1.2 1.4 2.3 1.9	:1	1.4 .8 1.3 2.0	.0	95.5 94.7 92.1 94.1
TOT PCT	9826	.1	1.2	.0	.0	.0	•	1.6	.9	.2	1.7	•1	1.4	.1	94.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			ED (KN	0TS) 34-47	48+	TOTAL DBS	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21	
N	1.5	3.2	1.1	.3				6.2	7.0	4,5	6.1	5.1	7.0	7.2	6.3	7,2	5.5	
NE	.7	1.2	. 3					2.2	5.9	1.6	1.3	1.7	2,3	3,3	4.0		1.5	
	.6	. 9	.2	.1		.0		1.6	6.3	1.2	.6	1.1	2,3	2,5	1.9	1.7	1.1	
E SE	1.1	4.1	3.9	1.2	.1	.0		10.4	12.0	8.7	9,5	10.0	12.3	11.6	6.3	10.5	9.9	
S	4.2	21.2	21.7	5.3	.4			52.9	12.3	56.9	57.0		51.2	51.6	54.6	48.9	53.4	
SW	1.8	7.5	4.1	.7		.0		14.2	9.7	16.5	15.3	13.8	11.9	11.6	15.1	15.0	15.4	
W	. 9	1.6	.2			.0		2.8	5.8	2,3	1.5	2.2	2,3	2.3	5.1	3.6	3.7	
NW	1.1	2.2	. 6	.1		.0		4.0	6.5	3.1	2.0		3,9	3.2		5.4		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.7			•				5.7	.0	5.2	6.6		6.8	6,6	3.8	5.1	4.9	
TOT OBS							38724		10.3	6567	233	6591	4724	6503	332	9700	4074	
TOT PCT	17.5	42.0	32.2	7.7	.6			100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

T	۱в	LE	- 3	и.

					TAB	PE SW						
WND DIR	0-6	7=16	SPEED 17-27		41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18 21
N NE	3.4	2.2	.5	•1	:		6.2	7.0	4.5	5.9	7.2	6.7
E	1.5	• 7	• 1				1.6	6.3	1.2	1.6	2.5	1.5
SE	2.9	4:5	2.6	.4			10.4	12.0	8.7	11.0	11.4	10.4
5	13.1	25.2	12.7	1.7	.1		52.9	12.3	56.9	54.3	51.6	50.2
SW	5.5	6.6	1.9	.2			14.2	9.7	16.5	13.0	11.8	15.1
W	2.0	.7	.1				2.8	5.8	2.3	2.2	2.5	3.6
NW	2.4	1.4	.2				4.0	6,5	3.1	3.6	3.2	5.2
VAR	5.7	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
TOT DBS	5.7					38724	5.7	10.3	6800	11315	6835	13774
TOT PCT	37.4	41.4	18.1	2.5	. 1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1908-1978 (OVER-ALL) 1855-1978

TABLE 4

AREA 0029 COQUIMBO 28.55 72.1W

PERCENTAGE	FREQUENCY	OF	MIND	SPEED	BY	HOUR	(GMT)	

HOUR	CALM	1-3	4-10	11-21	SPEED (KNOTS) 34-47	48+	MEAN	PCT	TOTAL
£0300	5.3	9.5	40.4	35.3	8.8	.8		11.0	100.0	6800
90300	0.3	11.0	40.9	33.0	8.2	.5		10.4	100.0	11315
12615	6.5	13.2	42.6	30.2	6.9	.6		9.8	100.0	6835
18621	5.0	13.0	43.4	30.8	7.1	.6		10.0	100.0	13774
TOT								10.3		38724
PCT	5.7	11.8	42.0	32.2	7.7	.6			100.0	

			T	BLE 5								TA	BLE 6					
	PCT FRE			LOUD A		EIGHTHS) MEAN							CEILIN NH <5/					
WND DIR	0=2	3-4	5-7	8 & D85CD	TOTAL	CLOUD	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH 45/8 ANY HGT	TOTAL
N NE	.8	.3	1.0	2.5		5.7	:	:	:1	,5	1.5	.6	•1	• 1	:	•1	1.5	
E SE	.2	.1	1.6	2.1		5.7	:	:	.0	.1	1.5	.1	.1	:	:	.0	1.8	
S	16.9	6.8	3.5	23.0		5.1	.3	.1	1.1	1.8	4.3	7.1	2.2	.1	:1	.1	27.2	
NW	.5	.3	.5	1.1		5.7	•	.0	:1	.3	:6	.3	.1	:	:	.1	1.0	
CALM TOT OBS	1.1	.4	.8	2.6	7617	5.7 5.2	• 0	.0	:1	.4	1.3	.6	.0	:0	••	.1	1.9	7617
TOT PCT	25.6	10.7	22.6	41.1	100.0		.5	.3	2.0	11.1	25,8	12.0	3.5	.9	.2	.7	43.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS DECURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

				VSBY (NM)			
CEILING	. DR	· DR	· DR	- OR	· DR	- OR	- OR	- OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
ΠR >6500	. 7	.9	1.0	1.0	1.0	1.0	1.0	1.0
nR >5000	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DR >3500	4.3	5.2	5.3	5.3	5.3	5.3	5.3	5.3
DK >2000	14.2	17.0	17.2	17.2	17.3	17.3	17,3	17.3
OR >1000	35.5	42.3	43.0	43.0	43.0	43.0	43.0	43.0
TR >600	43.8	53.0	54.0	54.0	54.1	54.1	54.1	54.1
DR >300	44.9	54.8	55.9	56.0	56.0	36.0	56.0	56.0
DR >150	45.0	55.0	56.2	56.3	56.3	36.3	56.3	56.3
nR > 0	45.2	55.3	56.6	56.7	56.8	56.8	56.8	56.8

TUTAL NUMBER OF OBS: 7739 PCT FREQ NH <5/8: 43.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	OBS
13.6	9.0	7.9	6,6	5.1	4.1	7.4	9.7	36.1	.3	8254

ANNUAL	

ERIOD: (PRIMARY) 1 (OVER-ALL) 1	1908-1978 1855-1978						TA	BLE 8				ARE	A 0029	28.55	MB0 72
		P	ERCENT	PREC	OF WIN	D DIRE	CTION TH VAR	VS DCC	URRENCE ALUES	E OR N	ON-OCC	URRENC	E OF		
VSBY (NM)		N	NE	E	SE	s	SW		NW	VAR	CALM	PCT	TOTAL		
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
<1/2	NO PCP			.0	.0	:1				.0	.0	.2			
	TOT &			.0	.0	.1		•	•	.0	.0	.2			
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
1/2<1	NO PCP			.0	:	. 1				.0		.2			
	TOT \$	•	•	.0	•	.1		•	•	.0		.2			
	PCP	.0	.0	.0	.0			.0		.0					
1<2	NO PCP	. 1						:	•	.0		.2			
	TOT *	. 1	•	•		.1		•	•	.0		.2			
	PCP	.1		.0		.1	.1	.0		.0		.3			
2<5	NO PCP	.1		:	. 1	. 6	. 3	:		.0	.1	1.3			
	TOT *	.3	•	•	:1	.7	.1	•	•	.0	.1	1.6			
	PCP	.1	.1	.0		.3	.1	.1	.1	.0		.8			
5<10	NO PCP	1.1	.6	.2		3.9	3.0	.5	.4	:0	. 8	16.3			
	TOT \$	1.2	.6	• 2	. 8	9.3	3.1	.6	.5	.0	. 8	17.1			
	PCP	.1			.0	.2	.1			.0		.4			
10+	NO PCP	3.5	1.5	.7	4.0	49.7	13.8	1.8	1.8	.0	3.4	80.3			
	TOT %	3.6	1.5	.7	4.0	49.9	13.9	1.8	1.8	.0	3.4	80.7			

TOT DBS TOT PGT 5.1 2.2 1.0 5.6 60.1 17.4 2.5 2.4 .0 4.3 100.0

TABLE 9

				PERCEN	T FREG	OF WI	ND DIR VALUE	ECTION S OF V	IZIBIL AZ MI	ND SPE	ED		
VSBY (NM)	SPD	N	NE	E	\$E	S	SW	W	NW	VAR	CALM	PCT	TOTAL
	U-3	.0		.0	.0		.0		.0	.0	.1	.1	200
<1/2	4-10				.0			.0		.0		.1	
	11-21	.0	.0	.0	.0			.0	.0	.0		.1	
	22+	.0	• 0	.0	.0			.0	.0	.0			
	TOT \$			*	•0	• 1	•	•		.0	.1	•2	
	0-3		.0	.0	.0			.0		.0			
1/2<1	4-10			.0					.0	.0		.1	
	11-21	.0	.0	.0	.0			.0	.0	.0			
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	•		.0		.1			•	.0	•	.2	
	0-3		.0	.0			.0			.0		.1	
1<2	4-10					.1				.0		.2	
	11-21		.0	.0				.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT #	-1		*		.1				.0		.3	
	0-3	:1				.1	.1			.0	.2	.5	
2<5	4-10	.1			.1	.4	.3			.0		1.0	
	11-21	.1				.3	. 4	.0	.0	.0		.5	
	22+		.0	.0		.1		.0	.0	.0		.1	
	TOT %	.3			.1	.9	.5	.1	•	.0	.2	2.2	
	0-3	.2	.1	.1	.1	.7	.4	.2	.1	.0	1.2	3.1	
5<10	4-10	.7	.3	.1	.4	3.9	1.9	. 3	.3	.0		7.9	
	11-21	.4	.1		.2	4.0	1.2	. 1	.1	.0		6.0	
	22+	.1		.0	.1	1.1	.2	.0		.0		1.4	
	TOT %	1.3	.5	• 2	. 8	9.7	3.6	.6	.5	.0	1.2	18.4	
	0-3	.6	.2	.2	.3	2.4	1.1	.4	.4	.0	4.2	9.8	
10+	4-10	2.3	1.1	.5	1.8	17.5	7.5	1.3	1.1	.0		33.0	
	11-21	.7	.3	.1	1.3	21.9	4.9	.2	.2	.0		29.5	
	22+	.1			.1	5.3	. 8		.0	.0		6.3	
	TOT \$	3.6	1.6	.7	3.5	47.1	14.3	1.9	1.7	.0	4.2	78.6	
	TOT 085												12786
T	TOT PCT	5.3	2.2	1.0	4.5	58.0	18.5	2.5	2.3	.0	5.7	100.0	

ANNUAL

PERIOD: (PRIMARY) 1908-1978 (OVER-ALL) 1855-1978

TABLE 10

AREA 0029 CDQUIMBD 28.55 72.1W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	4000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	.3	.3	1.6	10.4	22.1	9.2	2.8	.8	.4	.4	48.3	51.7	1973
90300	.7	-1	1.5	9.4	24.9	11.3	3.5	1.0	.1	.7	53.3	46.7	1752
12615	.5	.5	3.0	13.2	31.4	14.4	3.7	.7	.2	.7	68.3	31.7	2089
18621	.5	.3	1.6	9.9	22.4	12.0	3.5	.9	.2	1.0	52.2	47.8	2089
TOT	.5	.3	1.9	10.8	25.3	11.8	3.4		.2	.7	55.8	44.2	7903

80-89 90-100 MEAN TOTAL OBS 48.1 16.5 82 2214 49.1 20.0 83 2129 45.6 20.0 83 2265 35.6 10.0 78 2277 3955 1471 82 8885

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
E0300	.2		.3	1.6	16.7	81.2	2951	00603	.3	2.2	13.6	36.0	50.4	1928
90300	.4	.2	.4	2.1	18,9	78.0	3448	06609	.7	2.5	13.1	41.9	45.0	1708
12615	.3	.5	.3	2.9	18,9	77.2	3064	12615	.5	4.3	18.7	50,5	30.7	2063
18621	.1	.1	.3	2.3	19.0	78.1	3517	18621	,5	2.4	13.5	40.3	46.2	2040
TOT	.2	.2	.3	2.2	18.4	78.5	12980	TOT	.5	2.9	14.8	42.3	42.8	7739

TABLE 13

						-										_				
	PERC	ENT FR	EQUENC	Y UF R	ELATIV	E HUMI	DITY B	Y TEMP	TOTAL	PCT		PERC	ENT FR	EQUENC	Y OF 1	IND DI	RECTIO	N BY T	EMP	
TEMP F	0-29	30-39	40-49	10-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	0	.0	.0		0	.0	.0	,0			.0	.0	.0	.0			.0	.0	.0	.0
75/79	.0	.0	.0	.1	.1	.1		.0		.3		.0	.0	.0	.1	.1	.0		.0	.0
70/74	.0	.0		. 2	9	1.0	.3	.1		2.5		.1		.2	1.3	.5	.2		.0	.1
65/69	.0		.0	. 2	2.4		5.3	1.7		15.0	.6	.2	.1	1.2	8.7	2.7	.5	.4	.0	. ;
60/64	.0	.0		. 3	2.8	11.2	14.7	4.9		33.9	1.6	.7	.3	1.7	19.9	6.3	. 8	.9	.0	1.7
55/59	.0	.0		. 2	2.0		20.6	7.6		41.0	2.5	1.1	.4	1.8	25.1	6.5	.7	.9	.0	2.1
50/54	.0					1.0	3,0	2,1		7.2	.4	.2	.1	.3	4.7	1.0	.2	.1	.0	.2
45/49	.0					.0		•			.0	.0	.0	.0		.0	.0	.0	.0	.0
TOTAL									8672	100.0					20	-				
PCT	-0	- 0		1.0	8.6	29.4	64.6	16.6			5.2	2.2	1.0	5.2	50.0	17-1	2.4	2.3	- 0	4.0

				TA	LE 15									TABLE	16			
	MEANS,	EXTREMES	AND	PERCE	TILES	OF TE	4P (DE	G F) (Y HOUR		PERC	ENT FRE	QUENCY	OF RELA	TIVE H	UMIDITY		
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	HIN	MEAN	TOTAL	HDUR (GHT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	1
00803	81	67	65	60	56	54	49	59.8	6798	00803	.0	.6	5,5	29.3	48.1	16.5	82	2
06609	81 80 77	65	63	59	56 55	54	46	58.6	11364	06609	.0	.6	5,5	24.8	49.1	20.0	82	2
00803 06609 12615	77	67	64	60	55	53	47	59.4	6782	12615	.0	.5	7.2	26.8	45.6	20.0	83	2
18621	84	72	68	62	57	55	49	62.1	12632	18621	.0	2.4	15.7	36.3	35.6	10.0	78	2

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NNUAL

	(PRIMARY) (DVER-ALL)		TABLE 17	AREA 0029 CDQUIMBD 28.55 72.1W
		PCT FREQ OF AIR	TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WIT	HOUT PRECIPITATION)

	P 6 1	FREQ	UF ,		EMPER	VS AI	R-SEA	TEMPE	RATUR	E DIF	PERENCI	DEG F	WITHUG	IT PRECI
AIR-S	FA	45 48	49 52	53 56	57 60	61	68	69 72	73 76	77 80	81 84	TOT	FOG	FOG
17/1	•	.0	.0	:0	.0	.0	.0	:	.0	.0	.0	1	.0	
14/1	٨	.0	.0	.0	.0						.0	10	.0	.1
11/1	3	.0	.0	.0		.1	.2	,2	.1		.0	53		.6
9/1	0	.0	.0	:0	.1	.3	.3	.3	.1		.0	93		1.0
7/8		.0	.0	.1	.1	. 5	.5	.3	.1		.0	143		1.6
6		.0	.0		.2	.5	.4	.2			.0	126	.0	1.4
5		.0	.0	.1	.5	. 9	.5	.2	.1	.0	.0	208		2.3
4		.0	.0	.2	1.2	1.3	.7	.2				333	.1	3.7
3		.0		.3	1.8	1.4	.9	.4	.1	.0	.0	441		4.9
2		. 0		. 0	2.8	2.7	1.4	.4	.1	.0	.0	734	.1	8.1
1		.0		1.9	3.5	2.9	1.6	.4	.1		.0	918	.2	10.1
0		.0	.1	3.7	5.9	4,5	2.2	.3		.0	.0	1492	.3	16.5
-1		.0	.1	3.7	5.2	3,8	1.8	, 3	.0	.0	.0	1318	.2	14.7
-2		.0	.2	3,2	4.4	3,4	1.4	.2			.0	1138	.2	12.6
-3		.0	.2	2.6	3.1	2.0	. 8		.0	.0	.0	766	.2	8.5
-4		.0	.4	1.7	2.0	1.5	.4		.0	.0	.0	531	.1	5.9
-5			.2	1.2	1.1		.2		.0	.0	.0	314	.1	3.5
-6		.0	.1	. 5	.3	. 3	.1		.0	.0	.0	116	.1	1.2
-7/-		.0	. 1	.4	.5	.2	. 1	.0	.0	.0	.0	109		1.2
-9/-	10	.0	.1	.1	.1			.0	.0	.0	.0	31	.0	. 3
-11/-	13	.0	.0					.0	.0	.0	.0	11	.0	.1
-14/-	10	.0	.0				.0	.0	.0	.0	.0	- 1	.0	
-17/-	10	.0	.0	.0			.0	.0	.0	.0	.0	,	.0	
TOTA	L	•		•				•				8891	••	
PCT			1.5	20,5	32.9	27.2	13.7	3,4	.7	.2		100.0	1.7	98.3

PERIOD: (DVER-ALL) 1963-1978

0

TABLE 18

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT		
HGT				N					1-3		11-21	22-33	34-47		
<1	1-3	4-10	11-21	22-33	34-47	484	PCT		1-3	4-10				48+	PCT
1-2	.2	1.8		.0	.0	.0	2.5		:1	.8	.0	.0	:0	:0	.4
3-4		1.0	• • •		.0	.0			.0	:2	.1	.0	.0	.0	.9
3-6	.0	.5	.5	.0	.0	.0	1.1		.0	.0	• 1	.0	0	.0	.3
7	.0	.0	.1	.0	.0	.0	• • •		.0	:0	.1	.0	.0	.0	.1
8-9	.0		• 1		:0	.0	.1		.0	••		•0	• •	.0	
10-11	.0	Ť	.0		.0	.0	0000		.0	ŏ	.0	.0	• 6	.0	:
10-11	.0	.0	.0	.0	.0	.0	• • •		.0	.0	.0		••		
12	.0	• •	.0	:0	:0	:0	• 0		.0		.0	:0	• • •	.0	.0
17-19	.0	:0	.0	.0		.0			.0		.0	.0	• 0	.0	.0
20-22	.0	.0	.0		.0	.0			••	• • •	•0	.0	••	.0	.0
23-25	.0	:0	.0		:0	.0	.0		.0	.0	.0	.0		.0	.0
26-32	.0	:0	.0	.0	.0	:0	• 0		.0	.0	.0	:0	• 0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
49-60	.0	:0	.0	.0	:0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
41-70	.0	.0	.0	.0	.0	.0	.0		:0	:0	.0	.0	• 0	.0	.0
61-70 71-86	.0	:0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
TOT PCT	.5	3.0	1.3	.1		.0			.2	1.2	.4	•	000000000000000000000000000000000000000	.0	1.9
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1			.0	.0	.0	. 1		. 2	.6		.0	.0	.0	.9
1-2	.1	.2	.1	.0	.0	.0	.4		.1	1.1	.2	.0	.0	.0	1.5
3-4	.0	.1	.0	.0	.0	.0	.1		.0	.4		.1	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0			.1	.6		.0	.0	. 8
7	.0	.0	.0	.0	.0	.0	.0		.0		.4		00000	.0	:1
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0		.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0		:1		.0	.1
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16 17-19 20-22 23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	-0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.00		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
TOT PCT	.2	.4	.1	.0	.0	.0	. 6		.3	2.3	2.1	.3		.0	5.1

PERIOD: (DVER-ALL)	1962-1098	ANNUAL	AREA 0029 COQUIMBO
	1,03-14/6	TABLE 18 (CONT)	28,55 72.1W

				PC	T FREQ	OF WIND	SPEED	(KTS) AN	DIRE	CTION Y	VERSUS S	EA HEIG	HTS (FT)			
HGT	1-3	4-10	11-21	5 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.1	2.7	.1	.0	.0	.0	3.9		.4	1.1		.0	.0	.0	1.5	
1-2	1.0	10.2	4.2	.0	.0	.0	15.3		.4	4.4	1.0	.0	.0	.0	5.9	
3-4	.1	5.3	11.9	. 8	.0	.0	18,2		.1	1.8	1.8	.1	.0	.0	3.8	
5-6	.1	1.4	9.6	1.7	.0	.0	12.8		.1	.6	1.7	.1	.0	.0	2.4	
7		.2	4.5	2.0	.1	.0	6.8			.2	. 8	.2		.0	1.3	
8-9	.0	.2	1.4	1.7	.1	.0	3,4		.0		.2	.2	.0	.0	.4	
10-11	.0		.4	1.1		.0	1.6		.0		.1	.2		.0	.3	
12	.0		. 2	.3	.1	.0	.5		.0			.1		.0	.1	
13-16	.0	.0	.1	.3		.0	. 4		.0	.0				.0		
17-19	.0			.1	.1	.0	.2		.0	.0				.0		
20-22	.0	.0		.1	.0	.0	.1		.0	.0			.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
26-32	.0	.0	.0		.0	.0			.0	.0	.0	.0		.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	- 0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	20.0	32.3	8.1	. 5	.0	63.3		. 9	8.1	5.7	.9		.0	15.7	
				W.								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	45+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	. 2	.3	.0	.0	.0	.0	. 5		.2	. 3	.0	.0	.0	.0	.5	
1-2	. 1	. 9	.1	.0	.0	.0	1.1		.1	.7	.1	.0	.0	.0	.9	
3-4	.0	.2			.0	.0	, 3		.0	.2	.2	.0	.0	.0	.4	
5-6	.0	.1	.1	.0	.0	.0	.2		.0	.1		.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	0		.0	.0		.0	.0	.0		
8-9	.0	.0		.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0		.0	.0			.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
23-25	.0	.0	. 0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60 61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86 87+	.0	.0	.0	•0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PUT	.3	1.5	. 3		.0	.0	2.1		.4	1.2	.4	.0	.0	.0	2.0	95.5

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	7.9	5.7	.3	.0	.0	.0	13.8	003
1-2	2.5	19.9	6.1	.0	.0	.0	28.5	
3-4	2	8.6	15.2	1.1	.0	.0	25.1	
5-6		2,3	12.1	1.8	.0	.0	16.4	
7								
	• 1	.4	5.8	2.2		.0	8.6	
8-9	.0	. 2	1.7	2.0		.0	4.0	
10-11	.0		.5	1.4	.1	.0	2.0	
12	.0		.2	, 3	.1	.0	.6	
13-16	.0	.0	.1	.3		.0	.5	
17-19	.0	.0		.1	.1	.0	. 3	
20-22	.0	.0		.1		.0	.1	
23-25	.0	.0	.0	.0		.0	.0	
26-32	.0	.0	.0		.0	.0		
33-40	.0	.0	.0	.0		.0	.0	
41-48	.0	.0	.0	.0		.0	.0	
49-60	.0	.0	.0	.0	ö	.0		
61-70	.0						.0	
		.0	.0	.0		.0	.0	
71-86	.0	.0	.0	.0		.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								4149
	1. 0							

PERIO): (OV	ER-ALL) 195	0-197	7				TABLE	19											
					PERCENT	FRE	PUENCY	OF WA	VE HE !	GHT (F	T) VS	WAVE P	ERIOD	(SECONI	os)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20=22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.8	6.1	8.4	5.3	2.5	1.1	.8	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1828	4
6-7	.1	1.5	5.6	9.8	6.3	3.0	2.0	.7	.6	.1		.0	.0	.0	.0	.0	.0	.0	.0	2066	6
8-9		.4	1.8	4.5	5.0	3.4	2.5	1.1		.3	.1	.0		.0	.0	.0	.0	.0	.0	1401	7
10-11	.0	.5	1.1	1.6	1.9	1.9	1.3	.6	.4	.1		.0		.0	.0	.0	.0	.0	.0	661	7
12-13	.0	.0	.7	.6	.7	.6	.7	.4		.1	.0			.0		.0		.0	.0	276	
>13	.0	.0	.0	.3	.4	.3	.2		.3			.0	.0	.0	.0		.0	.0	.0	114	
INDET	1.8	1.0	1.4	1.2	1.2	.6	.6	·i	.1	.1	•0		.0	.0	.0	.0	.0	.0	.0	551	
PCT	3.7	9.5	19.0	23.4	17.9	10.9	8.0	3.2	3.3	.7	.2	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

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1908-1 L) 1855-1	978 978					TABL	E 20				4	REA OO	29 CD 28,5	QUIMBD 5 72.1W
			PERCE	NT FRE	QUENCY	OF 00	CURREN	E OF	SEA TE	MP (DE	G F) 8	-	н	
SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
91/92 89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	ő	.0
85/86	.0	.0		.0		.0	.0					.0	ő	.0
83/84	.0	.0	:0	.0	.0	.0	:0	.0	.0	.0	.0	.0	ő	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	ő	.0
79/80	.0	.0	•		.0	.0	.0	.0	.0	.0	.0	.0	2	
77/78	.1		.1	.0		.0	.0	.0	.0	.0	.0	.1	10	
75/76	i.i	.2	, î	.0			.0	.0	.0	.0		.0	15	
73/74	.6		, 3	.2		.0	.0	.0	.0	.0	.1	.0	57	.2
71/72	2.2	2,5	2,0	.3	.1		.0	.0	.0	.0	i	.1	209	.6
69/70	5,2	9.8	5,0	1.2			.0	.0	.0	.0	.2	. 8	633	1.7
67/68	12.6	19.7	17.2	7.0	1.0	.4	.1	.0	.0	.0	.9	2.8	1760	4.7
65/66	21.2	22.0	22.3	13.3	5.2	1.5	.1	•1	.1	.2	2.0	9,6	2797	7.5
63/64	29.2	21,8	22.6	22.7	10.5	7.3	1.9	.9	.6	1.9	10.9	26.7	4716	12.7
61/62	14.9	12.4	12.8	20.3	23.5	16.8	10.5	4.4	3.7	8.9	19.6	26.3	5205	14.0
59/60	9.3	6.9	9.6	17.2	22.6	25.6	23.9	14.3	14.8	24.6	28.2	18,1	6746	18.1
57/58	3.4	2.8	4,5	10.9	16.6	25.0	30.0	29.7	31.5	31.4	22.2	10.0	7130	19.1
55/56	. 8	. 9	2.7	5.4	10.3	17.0	23.6	33.4	34.1	26.5	12.2	4,5	5730	15.4
53/54	, 3	.1	.5	1.2	3.0	5.4	8.4	13.7	13.4	5.7	3.2	. 8	1880	5.0
51/52	.2	.0	.2		.6	.7	1.5	2.8	1.7	.7	.3	.1	297	. 8
49/50	.0	.0		.1	.2	.2	.2	.5	.2	.1	.0		49	.1
47/48	.0	.0	.0	.0	.0	.0		.1	.0		.0	.0	7	
45/46	.0	.0		.0	.0	.0	.0	.1	.0		.0	.0	4	
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	,0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	. 0	.0	.0	0	0	.0	.0	.0	.0	.0	0	.0
MEAN	2867	2569	3199	2738	2826	58,6	3654	3386	3606	3514	2871	2917	37247	100.0
HEAN	04.0	04.5	05,7	01.0		30.0	31.63	3013	20.0	37.0	27.4	01.3	90.1	

TABLE 21

PR	ESSURE	(MB)

			AV	ERAGE	BY HOU	R (GMT	• •			
				ENAGE	PT HUU		•			TOTAL
MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	OBS
JAN	1014	1013	1014	1013	1015	1014	1015	1013	1014	1514
FEB	1013	1014	1014	1013	1015	1014	1015	1013	1014	1359
MAR	1014	1015	1014	1014	1015	1015	1016	1014	1015	1663
APR	1015	1015	1015	1015	1016	1016	1017	1015	1016	1528
MAY	1016	1015	1016	1016	1017	1015	1017	1016	1016	1410
JUN	1017	1017	1018	1017	1018	1018	1018	1017	1017	1816
JUL	1018	1017	1018	1017	1019	1017	1018	1018	1018	2083
AUG	1018	1018	1018	1017	1018	1018	1019	1017	1018	1830
SEP	1018	1017	1018	1018	1019	1018	1019	1018	1018	1893
DCT	1017	1017	1017	1016	1018	1019	1018	1017	1017	1746
NOV	1016	1017	1016	1016	1017	1018	1017	1017	1017	1414
DEC	1015	1015	1014	1014	1016	1014	1016	1014	1015	1574
ANN	1016	1016	1016	1016	1017	1016	1017	1016	1016	19830
00.5	3617	234	2304	1838	3844	320	5050	1413		

PERCENTILES

MO	MIN	14	5%	25%	50%	75%	95%	99%	MAX
JAN	1005	1008	1010	1013	1014	1016	1018	1021	1028
FEB	1006	1008	1011	1013	1014	1016	1018	1020	1026
MAR	1008	1009	1011	1013	1015	1016	1019	1021	1026
APR	1009	1010	1012	1014	1016	1017	1019	1022	1026
MAY	1005	1009	1012	1015	1016	1018	1020	1022	1029
JUN	1006	1010	1012	1015	1017	1019	1023	1026	1030
JUL	1005	1010	1013	1016	1018	1020	1024	1026	1032
AUG	1008	1010	1012	1016	1018	1020	1024	1026	1028
SEP	1006	1011	1013	1016	1018	1020	1024	1027	1030
DCT	1008	1010	1013	1016	1017	1019	1022	1024	1030
NOV	1008	1011	1012	1015	1017	1019	1022	1023	1025
						1017	1010	1001	1004

TABLE 1

AREA 0030 ANTOFAGASTA 22.15 71.7W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WD PCPN	FOG WO PCPN PAST HR	SMOKE		
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	.0	.0	.0	91.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	7.5	.0	.0	.0	.0	7.5	.0	.0	.0	.0	.0	.0	92.5
SE	.1	.0	.1	.0	.0	.0	.0	.3	.7	.0	.0	.0	.0	.0	99.0
S	.1	.0	.1	.0	.0	.0	.0	.2	.7	.3	.1	.0	.3	.0	98.3
SW	.0	.0	.9	.0	.0	.0	.0	.9	.2	.0	.7	.0	1.1	.0	97.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5	.0	97.0
TOT PCT	1189	.0	.3	.0	.0	.0	.0	.3	.6	.2	.3	.0	.4	.0	98.1

TABLE 2

DERCENT	ERCALIENCY	0.5	MEATHER	OCCURRENCE	OV U	DILID

				RECIPI	****	. TVDE					Dente	WEATHER	DUENO	wew.		
			,	KEUIFI	1-110						DINEK	MENINEK	PHENU	MENA		
HOUR	RAIN	RAIN	DRZL	FRZG	SNOW		HATL	PCPN AT	PCPN PAST	THOR	FOG	FOG WO	SMOKE			ND
(GMT)		SHWR		PCPN		FRZN		DB TIME	HOUR	LTNG	MO	PCPN	HAZE	BLWG D		SIG
						PCPN					PCPN	PAST HR		BLWG S	NOM	WEA
00603	.4	.0	.4	.0	.0	.0	.0	.7	.4	.0	.4	.0	.0		.0	98.6
90300	.0	.0	.3	.0	.0	.0	.0	.3	. 9	.9	.6	.0	.6			96.8
12615	.0	.0	.3	.0	.0	.0	.0	.3	.7	.0	.3	.0	.3		.0	98.3
18621	.0	.0	.0	.0	.0	.0	.0	.0	,3	.0	.0	.0	.7			99.0
TOT PCT	1224	•0	.2	.0	.0	•0	•0	.3	.6	.2	.3	•0	.4		.0	98.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

				ED (KN									HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N NE	1.1	.8	.1	.0	.0	.0		2.0	3.9	1.0	:0	3.2	3.0	1.7	5.3	.7	. 8
E SE	.9	1.3	.1			.0		2.4	5.4	1.4			5,5			1.7	.6
SE	3.2	11.5	2.9		.0	.0		17.7	7.2	11.6	22.4	15.7	19.9	21.0		19.8	16.9
S	9.7	34.3	9.7	,2	.0	.0		53.9	7.3	63.0	58,6	50.4	40,3	51.4	51.5	56.6	60.5
SW	3.1	7.1	1.1		.0	.0		11.3	5.9	12.7	15.5	10.7	6.7	8.4	12.1	13.5	15.3
W	.7	.8		.0	.0	.0		1.5	4.3	2.0	.0	1.7	2,0	1.1	1.5	1.1	1.1
NM	.5	.6	.0	.0	.0	.0		1.1	3.9	1.0	.0	1.8	1.2	1.2	.0	.7	. 9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0	.0	.0
CALM	8.8							8.8	.0	6,9	3.4				3.0		4.0
TOT OBS	1444	2990	710	11	0	0	5055		6.3	822	29	933	684		33	1360	453
TOT PCT	28.6	57.2	14.0	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

					10000							
WND DIR	0=6	WIND 7-16	SPEED 17-27		41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18 21
N	1.7	:3	:	:0	:0		2.0	3.9	1.0	4.0	1.8	• 7
75	1.1	: 8		.0	.0		2.4	5.2	1.3	2.5	2.3	.5
SE S				.0					1.3	3.9	2.5	1.4
2.5	8.9	8.4		.0	.0		17.7	7.2	12.0	17.5	21.2	19.1
5	27.0	25.2	1,6	.0	.0		53.9	7.3	62.9	46.1	51.4	57.6
SW	7.7	3.4	.2		.0		11.3	5.9	12.8	9.0	8.6	13.9
	1.3	.2	.0	.0	.0		1.5	4.3	1.9	1.8	1.1	1.1
NW	1.0	.1	.0	.0	.0		1.1	3.9	1.0	1.6	1.2	.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.8						8.8	.0	6.8	13.6	9.9	
TOT OBS	2992	1950	112	1	0	5055	10,000	6.3	851	1617	774	1813
TOT PCT	59.2	38.6	2.2		.0		100.0			100.0		

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JANUARY

PERIOD: (PRIMARY) 1908-1978 (DVER-ALL) 1870-1978

0

TABLE 4

AREA 0030 ANTOFAGASTA 22.15 71.7W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				MIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	DBS
1000	6.8	12.7	59,9	20.3	.2	.0	.0	7.3	100.0	651
06409	13.6	24.8	52.0	9.5	. 1	.0	.0	5.2	100.0	1617
12615	9.9	23.5	53.5	12.8	, 3	.0	.0	5.9	100.0	774
18621	5.0	17.0	62.1	15.7	. 3	.0	.0	6.9	100.0	1813
TUT	445	999	2890	710	11	0	0	6.3		5055
PCT	8.8	19.8	57.2	14.0	2	- 0	. 0		100.0	

TARLE

				W. P.C .								1.4	DEE C					
,	CT FRE			CLOUD A		(EIGHTHS)			PERCEN	TAGE F	REQUEN	ICY OF	CEILIN NH <5/	G HEIG 8 BY W	HTS (F	RECTI	14/8)]N	
WND DIR	0-2	3-4	5-7	8 & 08500	TOTAL	COVER	149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.0	.1	-1	.3		6.6	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.2	
NE	. 3	.0	•0	.*		4.8	.0	.0	.0	.0	. 2		.0	.0	.0	.0	.4	
E	. 1	.2	.3	.3		5.7	.0	.0	.1	.0	.2	.2	.0	.0	.0	.0	.4	
SE	1.9	1.9	5.6	4.9		5,8	.0	.0	.1	.4	4.0	2.9	1.2	. 1	.0	.4	5.2	
S	13.4	8.7	19.1	24.9		5,5	.0	.1	. 8	5.4	17.7	10.4	2.3	.9	.5	.3	27.7	
SW	2.4	1.5	2.7	4.9		5,5	.0		.0	2.0	3.2	1.1	.3	.1	.3	.0	4.7	
W	.1	.2	.3	.0		4.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	. 3	
NW	.1		.0	. 4		6,1	.0	.0	.0	.2		.1	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.6	1.5	1.3		4.6	.0	.0	. 2	.3	. 8	. 4	.1	.1	.0		2.6	
TOT OBS	177	118	263	333	891	5,5		1	10	75	235	137	35	11	7	. 8	372	891
TOT PCT	19.9	13.2	29.5	37.4	100.0	•	.0	-1	1.1	8.4	26.4	15.4	3.9	1.2	. 8		41.8	100-0

TABLE 7

				VSBY (NH				
CFILING	• OR	- OR	• DR	• OR	- OR	· OR	- OR	- OR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ DR >6500	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
■ MR >5000	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9
■ DK >3500	6.1	6.8	6.8	6.8	6.8	6.8	6.8	6.8
■ NR >2000	20.1	22.4	22.4	22.4	22.4	22.4	22.4	22.4
- OR >1000	45.8	48.6	48.6	48.6	48.5	48.6	48.6	48.6
■ DR >600	53.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0
• OR >300	54.6	58.0	58.0	58.0	58.0	58.0	58.0	58.0
- OK >150	54.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1
. OR > 0	54.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1
TOTAL	492	522	522	522	522	522	522	522

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 OBSCD OBS 9.9 10.6 9.1 6.4 6.4 5.1 9.8 12.2 30.6 .0 971

.1	Δ	N	u	A	٧

						3411							
PERIOD: (PRIMARY) 1908-1978 (DVER-ALL) 1870-1978						TAS	LE 8				ARE	A 0050	AGASTA 71.7W
	P	RCENT	PREC I	F WIND	DIREC ON WIT	TION V	ING YA	RRENCE LUES	E OR N	IBILIT	URRENC Y	E OF	
VSBY	N	NE	E	SE	5	SW		NW	VAR	CALM	PET	TOTAL	

				PREC	IPITAT	ION MI	TH VAR	ATME AT	FOFE	OF AIR	IBILIT	4	
VSBY		N	NE	E	SE	5	SW		NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT &	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0	.0	
1/24	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT \$.0	.0	.0	.0	.0	. 1	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
142	NO PCP	.0	.0	.0	. 0	.0	.0	.0	-0	.0	.1	.2	
	TOT &	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	.1	.0	.0	.0	. 3	. 1	.0	.0	.0	.1	.5	
	TOT &	. 1	.0	.0	.0	. 9	. 1	.0	.0	.0	.1	.5	
	PCP	.0	.0	.1		.1	.1	.0	.0	.0	.0	.3	
5<10	NO PCP	. 3	. 6	. 1	2.4	6.2	1.1	::	.5	.0	1.0	12.6	
	TOT \$, 3	.0	. 1	2,5	6.3	1.2	.4	. 5	,0	1.0	13.0	
	PCP	.0	.0	.0	.0	.0	.0	:7	.0	.0	.0	.0	
10+	NO PCP	.6	.7	.7	12.4	56.2	10.5	.7	. 2	.0	4.3	86.3	
	TOT *	.6	. 7	.7	12.4	56.2	10.5	.7	.5	.0	4.3	86,3	
	TOT DES												1186
	TOT PCT	1.0	1.3	. 8	14.9	62.7	12.0	1,1	.7	.0	5.5	100.0	

							TABLE	9					
				PERCEN	T FREG	DF WI	ND DIR	ECTION S OF VI	VS WI	ND SPE	EO		
VSBY (MM)	SPO	N	NE	E	SE	s	SW		NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	•0	.0	.0	.0	.0	.0	.0	.0	•0	
	0-3	.0	•0	.0	.0	.0	.1	.0	.0	.0	.0	•1	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	•0	.0	.0	.0	.0	.0	.0	.0		•0	
	22+	.0	•0	.0	.0	.0	.0	.0	.0	.0	_	•0	
	TOT \$.0	•0	•0	.0	.0	.1	.0	.0	.0	.0	• 1	
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.1	• 1	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.1	,0	.0	.0		•1	
	22+	.0	•0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	.0	.0	.0	.1	.0	.0	.0	.1	•1	
	0-3	-1	•0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	4-10	.0	•0	.0	.0	.3		.0	.0	.0		.3	
	11-21	.0	•0	.0	.0	•	•	.0	.0	.0		•1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	•1	•0	•0	•0	.3	.1	.0	.0	.0	.1	.6	
	0-3	-1	• 1	.1	.1	.6	.3	.1	.1	.0	1.0	2.5	
5<10	4-10	.2	• 4	.0	1.7	3.6	. 8	.2	.3	.0		7.2	
	11-21	.0	.0	.0	.2	1.4	. 1	.0	.0	.0		1.7	
	22+	.0			.0	.0	.0	.0	.0	.0		•1	
	TOT %	.3	•6	.2	5.0	5.5	1.2	.3	.4	.0	1.0	11.4	
	0-3	.3	.3	.3	1.0	5.3	2.0	.2	.1	.0	6.4	15.9	
10+	4-10	.5	.6	.6	6.5	34.2	7.7	.7	. 5	.0		51.3	
	11-21	.0	• 1	.2	3.5	14.5	1.9	.1	.0	.0		20.4	
	224	.0	.0	.0	:	3	.0	.0	.0	.0		.3	
	TOT \$		1.0	1.1	11.1	54.3	11.6	.9	.6	.0	6.4	87.9	
	10 TO												1449
Т	nt per	1.2	1.6	1.2	13.1	60.2	13.0	1.2	.9	.0	7.5	100.0	

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PERIOD: (PRIMARY) 1908-1978 (OVER-ALL) 1870-1978

TABLE 10

AREA 0030 ANTOFAGASTA 22.15 71.7W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND DOCUMBENCE OF NH <5/8 BY HOUR

HOUR (GMT)	600 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
£0300	•0	.4	1.8	6.6	25.0	9.2	2.2	1.3	.4	1.3	48.2	51.8	228
90300	.0	.0	.8	10.9	25.1	15.9	3.3	1.3	1.3	.0	58.6	41.4	239
12615	.0	.0	1.2	9.6	28.9	20.1	5.2	.8	.4	. 8	67.1	32.9	249
18621	.0	.0	.5	4.6	21.6	14.2	4.1	1.4	.9	1.4	48.6	51.4	218
TOT	0	1	10	75	236	140	35	11	7	8	523	411	934

TABLE 11

TABLE 12

		PERCENT	FREQUENC	Y VSBY	(NM)	BY HOUR		CUMULAT	TVE PCT	FREQ	OF RAN	GES OF NH >4/8	VSBY (NM)	AND/OR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	•0	.0	.3	.9	10.0	88.8	331	60800	.0	1.8	8.7	41.3	50.0	218
90360	.0	.0	.2	.2	16.3	83.3	461	06609	.0	.9	12.6	48.5	39.0	231
12615	.0	.3	.0	.6	10.2	88.9	333	12615	.0	1.2	11.2	57.9	31.0	242
18621	•0	.0	.0	.6	12.3	67.2	359	18621	.0	.5	5.3	45.7	49.0	208
PCT	.0	.1	.1	.5	186	1287 86.7	1484	TOT	.0	10	86 9•6	437	376 41.8	899 100.0

TABLE 13

TABLE 14

PERCENT PREQUENCY OF WIND DIRECTION BY TEMP

N NE E SE S SW W NW VAR CALM

.0 .0 .0 .0 .1 * .0 .0 .0 .0

.0 .0 .0 .3 .5 * .0 .0 .0 .0

.0 .0 .2 1.1 3.5 1.4 .1 .0 .0 .5

.1 .7 .0 5.6 20.3 3.7 .7 .4 .0 2.4

.7 .7 .8 7.7 32.9 6.9 .6 .3 .0 3.3

.2 .0 .0 .4 3.1 .4 .0 .2 .0 .1

1.0 1.4 1.0 15.1 60.4 12.5 1.4 1.0 .0 6.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR DUR MAX 99% 95% 50% 5% 1% M\$N MEAN TOTAL GRT) 080 77 74 69 65 62 62 69.1 831 860 77 75 69 64 63 60 67.7 1618 2615 83 77 75 69 64 63 62 69.2 754 8621 88 83 80 72 66 64 63 60 69.9 4861 77 69 64 63 60 69.9 4861

TABLE 16

HOUR (GMT) 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL (GMT) 0-29 10-59 60-69 70-79 80-89 90-100 MEAN TOTAL (GMT) 0-29 11-7 17.0 40.2 27.5 13.5 78 229 00609 .0 11-4 13.0 39.6 31.9 14-0 79 285 12615 .0 2.8 21.0 35.9 28.6 11.7 77 248 18621 .0 8.2 28.3 35.6 18.9 9.0 73 233 TOT 0 -34 194 377 269 121 77 995

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PERIOD: (PRIMARY) 1908-1978 (OVER-ALL) 1870-1978

TABLE 17

AREA 0030 ANTOFAGASTA 22.15 71.7W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)

42	AIR.	SEA 1	EMPER	ATURE	Direc	EKENCE	(DEG F			
IR-SEA	61	65	40	73	77	81	65	TOT	FOG	WO
THP DIF	61	65	72	73	80	81	88		FOG	FOG
14/16	.0	.0		.0	:4 :1	:2	.0	6	.0	.5 .8 .9 2.2 1.4 3.8 4.4 3.5 7.1
11/13	.0	.0	.0	.2	.4	.2	.1	10	.1	.8
9/10	.0	.2	.4	. 2	.1	.1	.0	10	.0	.9
7/8	.1	.2	.4	.7	. 6	. 3	.0	25	0	2.2
6	.1	.0	.4	.9	.1	.0	.0	16	.0	1.4
5	.0	.4	1.6	.0 .2 .7 .9 1.4 1.3	.4	.0	.0	43	.0	3.8
4	.0	. 5	1.5	1.3	. 9	.0	.0	49	.0	4.4
3	.2	. 9	1.2	1.0	.2	.0	.0	39	.0	3.5
2	.0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.5	1.2	.6	.0	.0	81	:0	7.1
1	.0	2.8	3.7	1.5	.5	.0	.0	96	.0	8.5
0	.8	6.1	5.5	1.5	.2	.0	.0	162	.0	14.4
-1	.6	6.8	6.3	2.0	.1	.0	.0	177	.0	15.6
0 -1 -2 -3	1.3	6.2	5.3	1.3	.1	.0	.0	160	.0	14.4 15.6 14.2 9.1
-3	.6	4.7	3.0	.6	.1	.0	.0	102	.0	9.1
-4	.9	4.5	1.7	.2	.0	.0	.0	82	.0	7.3
-5	.1	1.2	1.5	.2	.0	.0	.0	34	.1	2.9
-6	.2	. 8	.9	.1	-1	.0	.0	23	.0	2.0
-7/-8	.0	. 5	.2	.0	.0	.0	.0		.0	7
-9/-10	.0	.5	.2	.0	.0	.0	.0	2	.0	1121
TOTAL	58	•	406	-	49		1	_		1121
		437		164		10		1125		
PCT	5.2		36.1	14.6	4.4	10	.1	100.0	.4	99.6

PERIOD: (DVER-ALL) 1963-1978

TABLE 18

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIR	ECTION	VERSUS S	EA HEIG	HTS (FT		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	. 3		.0	0	.0	.0	.0	.0	.0
1-2	.3	.0	.0	.0	.0	.0			. 2	5	.0	.0		.0	.8
3-4	.0	.0	.0	.0	.0	.0	.0		.0		.0	.0	. 0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0		.0	.0	0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		• 0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.00	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	:0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	-0
41-48	.0	.0	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	- 0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.0	.0	.0	.0	.0	. 5		. 2	.5	.0	.0	.0	.0	. 8
				F								SE 22-33			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3		11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2		• 1	.7	.0	.0	.0	.0	1.4
1-2	.0	.3	.0	.0	.0	.0	,3			6.2	1.0	.0	. 0	.0	8.0
3-4	.0	.2	.5	.0	.0	.0	.3		.0		2.0	.0	.0	.0	6.2
5-6	.0	.0	.0	.0	.0	.0	.0		.0		1.1	.0		.0	1.4
7	.0	.0	.0	.0	.0	.0	.0		.0		.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0		.0		,3	.0	. 0	.0	.3
10-11	.0	.0	.0	.0	.0	•0	.0		.0		.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	:0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.00		.0	.0	.0	.0	0000000000	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	1.1		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.5	.5	.0	.0	.0	1.1		1.5	11.6	4.8	.0	.0	.0	17.8

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									JAN	UARY							
PERIODI	COVE	R-ALL)	1963-1	1978				TABLE	18	(CONT)				AREA		ANTOFAC	.TW
				PC	T FREQ	OF WING	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT			
				5									SW				
HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT			1-3	4-10			34-47	48+	PCT	
<1	1.8	4.0		.0	.0	.0	5.8			1.0	!			.0	.0	1.8	
1-2	2.5	20.2	2.4	• 0	.0	•0	25.3			.3	4.7			.0	.0	5.2	
3-4	.5	7.4	9.8	.3	.0	.0	18.0			.0	. 9			.0	.0	2.5	
5-6	.0	1.5	5.5	.0	.0	.0	7.0			.3	.0			.0	.0	.7	
7	.0	.5	3.2	.3	.0	.0	3.9			•0	. 6			.0	.0		
10-11	.0	.0	. 5	.0	.0	.0	.5			.0				.0	.0	.0	
12	.0	.0	.3	.0	.0	.0	.0			.0	:0			:0	.0	.0	
13-16	.0	.0	.0	.0	:0	.0	:0			.0	.0			:0	.0	.0	
17-19	.0	:0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
20-22	.0	:0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			ō	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	,0			.0	.0			0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
TOT PCT	4.8	33.6	21.9	.5	.0	.0	60,8			1.6	7.1	2.2	.0	.0	.0	10.9	
																	TOTAL
HGT	1-3	4-10	11-21	¥ 22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	4-10	.0		.0					.0				.0	.0	.0	
1-2	.0	.0	.2	.0	:0	.0	.5			.0	.;			.0	.0	.5	
3-4	.0	.3	.0	.0	.0	.0	, 3			.0	.0			.o	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	. 0			.0	.0	.0	
7	.0	.o	.0	.0	.0	.0	ō			.0	.0			. 0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0				.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
87+	.0	.0	• 2	.0	.0	.0	.0			.0	.0			.0	.0	.0	
TOT PCT	.0	.5	.2	.0	.0	.0	.7			.0	. 5	.0	.0	.0	.0	.5	93.2

45

(4)

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(PT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	10.9	5.4	.0	.0	.0	.0	16.3	003
1-2	4.4	32.4	3.9	.0	.0	.0	40.7	
3-4	.5	13,2	13.7	.3	.0	.0	27.7	
5-6	.3	1.8	7.0	.0	.0	.0	9.1	
7	.0	1,3	3.6	.3	.0	.0		
8-9	.0	.0	.8	.0	.0	.0	. 8	
10-11	.0	.0	.3	.0	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0		.0	.0	.0	.0	
71-86	.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
0,-		••	••	••	•••	••		386
TOT PCT	16.1	54.1	29.3	.5	.0	.0	100.0	200

PERIO	D: (DV	ER-ALL) 194	9-197					TABLE	19											
					PERCENT	FRE	QUENCY	OF W	AVE HET	GHT (FT) VS	WAVE P	ERIOD	(SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	1;	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
46	2.5	12.7	12.9	4.1	1.4	.5	.3		0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	267	3
6-7	.5	2.9	6.5	13.9	4.4	1.2	.4		1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	535	5
8-9	.0	.3	2.2	6.7	5.2	2.4	.9		.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	
10-11	.0	.3	2.0	1.8	1.4	.1	.0		0	.0	.0	.0	.0	.0	.0	.0		.0	.0	45	5
10-11	.0	.0	.3	.5	.3	. 8	.0		.0	.0	.0	.0			.0	.0		.0	.0	14	6
>13	.0	.0	.0	.4	.7	.0	.1			.0	.0	.0	.0		.0	.0		.0	.0	•	7
>13 INDET	2.6	2.4	1.8	. 9	.1	.0	.0			.0	.0	.0	.0		.0	.0		.0	.0	60	2
TOTAL	43	141	197	216	104	38	13	1		0	0	0	0	0	0	0	0	0	0	765	
PCT	5.6	18.4	25.8	28.2	13.6	5.0	1.7	1.		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1907-1978 (DVER-ALL) 1870-1978

0 0

TABLE 1

AREA 0030 ANTOFAGASTA 22,15 71.7M

	· · · · · · · · · · · · · · · · · · ·	1275		A STANSANDERS OF THE STANSAND		THE SHAPE	
PERCENT	PREQUENCY	OF	WEATHER	DCCURRENCE	84	MIND	DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPH	HAIL	PCPN AT	PCPN PAST HOUR	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUS BLWG SND	
N NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	•0	.0		100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.2	.2	.0	.0	.0	.0	.3	.2	.0	.0	.0	. 8	.0	98.7
S	. 1	.1	.7	.0	.0	.0	.0	1.0	.3	.0	.0	.0	2.5	.0	96.2
SW	. 2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1.8		98.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	90.0
TOT PCT	918	-1	.4	.0	.0	.0	.0	.7	.2	.0	.0	•0	2.4	.0	96.7

TABLE 2

PERCENT P	REQUENCY	DF	WEATHER	DCCURRENCE	BY	HDUR
-----------	----------	----	---------	------------	----	------

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FDG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	.0	.0	.4 .7 .4 .0	.0	.0	.0	.0	1.3	:6	.0	.0	.0	2.1 2.6 3.9 1.0	.0	97.0 96.7 94.4 99.0
TOT PCT	934	•1	.4	.0	.0	•0	.0	.6	.2	.0	.0	•0	2.5	.0	96.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WIN	D SPE	ED IKNI	TS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	PCT	SPD	00	03	06	09	12	15	18	51
N NE	.9			.0	.0	.0		1.8	4.1	.6	.0	2.0	3.6	2.0	.0	1.5	1.3
	. 8	. 7			•0	.0		1.6	4.1	.2	.0	2.3	3,3	2.1	.0	. 9	1.3
E SE	1.1	1.4	.2		.0	.0		2.7	4.9	. 8	.0	3.0	5.0		.0	2.4	. 3
SE	2.9	12.0	2.9		.0	.0		17.9	7.2	13.1	16.7	16.0	19.8	21.5	27.8	20.2	13.5
S	9.4	34.5	10.1	.1		.0		54.2	7.5	63.3	62.0	50.6	42.2	51.8	61.1	55.5	62.5
SW	2.3	7.9	1.0		.0	.0		11.1	6.5	13.1	17.6	12.2	7.6	7.5	.0	12.3	13.5
W	.5	1.0		.0	.0	.0		1.6	4.8	2,3	.0	1.8	1.8	.7	.0	1.1	2.5
NW	.5	.4			.0	.0		. 9	4.0	.6	.0	1.0	. 9	.7	.0	1.1	1.5
VAR	.0	.0	.0		.0	.0		.0	•0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3			•••	• •	•		8,3	•0	5,9	3,7	11.3	15.8	9.5	11.1	5.0	3.4
TOT OBS	1032	2265	553	5	1	0	3856		6.4	625	27	751	493	582	18	1063	297
TOT PCT	26.8	58.7	14,3	.1	•	.0		100.0		100.0	1000					100.0	

- 4 8	

WND DIR	0=6	WIND 7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	06 09	12 15	18
N NE	1.5	:3	• 0	:0	:0		1.8	2:1	.6	2.6	2.0	1.4
	2.1	.6		.0	.0		2.7	4.9		3.8	4.1	1.9
SE	9.3	8.1	.5	:0	.0		17.9	7.2	13.3	17.5	21.7	18.8
	25.9	26.8	1,5	•	.0		54.2	7.5	63.3	47.3	52.1	57.0
SW	6.4	4.7	,1	.0	.0		11.1	6,5	13.3	10.3	7.3	12.6
¥	1.3	. 3	.0	.0	.0		1.6	4.8	2.2		.7	1.4
NW	. 8	.2	.0	.0	.0		.9	4.0	.6	. 9	.7	1.2
VAR	.0	.0	.0	.0	.0		.0	.0	•0	.0	.0	.0
CALM	8.3						8.3	.0	5.6	13.1	9.5	4.6
TOT DBS	5188	1584	83	1	0	3856		6.4	652		600	1360
TOT PCT	56.7	41.1	2.2		.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1907-1978 (OVER-ALL) 1870-1978

TABLE 4

AREA 0030 ANTOFAGASTA 22,15 71.7W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND 11-21	SPEED 1		48+	MEAN	PCT	TOTAL
60300	5.8	14.7	57.8	21.5	.2	.0	.0	7.6	100.0	652
90300	13.1	21.3	55.9	9.6	. 2	.0	.0		100.0	1244
12615	9.5	19.8	58,3	12.3	,0	.0	.0		100.0	600
18621	4.6	17.0	62.0	16.2		.1	.0		100.0	1360
TUT	321	711	2265	553	5	1	0	6.4		3856
PCT	8.3	18.4	58.7	14.3	.1		.0		100.0	

TABLE

....

,	CT FRE			CLUUD A		(EIGHTHS)							CEILIN					
WND DIR	0=2	3-4	5-7	8 & n85CP	TOTAL	CLOUD COVER	000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N	.6	.0	.3	.1		2.9	.0	.0	.1	.0	.3	.0	.0	.0	.0	.0	.6	
NE	.2	.0	.2	.0		3.2	.0	.0	.0	.1		.0	.0	.0	.0	.0	. 2	
E	. 3	.0	.5	.6		5.8	.0	.0	.0	.0	.5	.0	. 3	.1	.0	.0	.7	
SE	3.8	2.5	5.2	6.6		5.4	.1	.0	.1	2.0	3.5	3.3	. 8	. 5	.2	- 0	7.6	
S	14.5	7.3	14.7			5,3	.0	.0	.3	3.2	13.3	8.8	2.8	. 9	.3	. 4	26.8	
SW	3.6	2.2	2.9			5.1	.0	.0	.1	. 9	3.5	1.7	. 8	.0	.0	.0	6.7	
	. 2	.1	.2			4.7	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	. 4	
NW	.1	.0	.0			2.2	.0	.0	.0	.0		.0	-0	.0	.0	.0	. 1	
VAR	. 0	.0	.0	- 0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0	
CALM	3.3	.7	.9			3.1	.0	.0	.0	.1			. 1	.0	.0	. 1	4.3	
TOT OBS	203	97	190	274	764	5:1	• • •	.0	5	64	167	110	36	11			362	764
TOT PCT	26.6	12.7	24.9		100.0			-0	.7	8.4	21.9	14.4	4.7	1.4		. 5	47.4	100.0

TABLE 7

CUMULATIVE PCT FRED	OF SIMULTANEOUS DECURRENCE
	(NH >4/8) AND VSBY (NM)

				VSBY (NM	1)			
CEILING	- OR	• OR	- OR	- OR	- OR	- OR	- OR	= DR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ DR >6500	1.0	1.0	1,0	1.0	1.0	1.0	1.0	1.0
■ RR >5000	2.2	2.5	2,5	2.5	2.5	2.5	2.5	2.5
■ OR >3500	6.9	7.1	7.1	7.1	7.1	7.1	7.1	7.1
■ OR >2000	20.6	21.4	21,4	21.4	21.4	21.4	21.4	21.4
■ MR >1000	41.7	43.2	43.2	43.2	43.2	43.2	43.2	43.2
■ DR >600	49.9	51.7	51,7	51.7	51.7	51.7	51.7	51.7
■ DR >300	50.5	52.3	52.3	52.3	52.3	52.3	52.3	52.3
. DR >150	50.5	52.3	52,3	52.3	52.3	52.3	52.3	52.3
- DR > 0	50.6	52.5	52,5	52.5	52.5	52.5	52.5	52.5
TOTAL	390	404	404	404	404	404	404	404

TOTAL NUMBER OF OBS1 770 PCT FREQ NH 45/81 47.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 0BSC0 0BS 11.4 14.0 11.1 5.5 5.2 4.5 6.5 11.2 30.6 .0 814

			٧

								No-IN!						
PERIOD: (PRIMARY) 1 (OVER-ALL) 1	907-1978 870-1978						TA	6LE 8				ARE	A 0030 ANT	
		PE	RCENT	PREC	OF WIN	D DIRE	CTION TH VAR	VS DCCU	RRENC	E OR N	IBILIT	URRENC	E OF	
VSBY (NM)		N	NE	E	SE	5	Sw		NW	VAR	CALM	PCT	TOTAL	
<1/2	PCP NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT &	.0	.0	.0	.0	.0	.0	,0	.0	.0	.0	.0		
14241	PCP NO PCP	.0	.0	.0	.0	.0	.0	•0	.0	.0	.0	.0		
1/201	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	NO PCP	.0	.0	.0	.0	.2	•0	.0	.0	.0	.0	.2		
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2<5	TOT \$.0	.0	•1	.0	.1	.0	.0	.0	.0	.0	.2		
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
5<10	NO PCP	.0	.2	,2	:8	2.4	.6	:1	.0	.0	::	4.6		
	PCP	.0	.0	.0	.1	.6		.0	.0	.0	.0			
10+	NO PCP	.8	:7	1.5	16.4	55.5	13.2	.9	.3	.0	5.0	94.3		
	TOT 085												714	
	TOT WET		. 0	1.8	17 4		12.6	1.0	. 3	-0		100.0		

				PEDCEN	T 5850		ND DIRE	CTTON	VE W1	NO 505	En			
				CKE			VALUES				EU			
VSBY (NM)	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT \$.0	•0	.0	•0	.0	.0	.0	.0	.0	.0	.0		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2		
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1		
	425	.0	.0	.0	.0	.0	.0	.0	.0	.0	1000	.0		
	TOT \$	•0	•0	•0	•0	.2	.0	.0	.0	.0	.0	.2		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2<5	4-10	.0	• 1	.1	.1	•	.0	.0	.0	.0		.3		
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1		
	22+	.0	•0	.0	•0	.0	.0	.0	.0	.0		.0		
	TOT \$.0	•1	• 1	•1	•1	.0	.0	.0	.0	.0	.4		
	0-3	.0	.2	.1	.2	.4	.1	•	.0	.0	1.0	2.0		
5<10	4-10	.0	.0	.0	.6	1.7	.3	.0	.0	.0		2.6		
	11-21	.0	• 0	*	•2	.5	.1	.0	.0	.0		.8		
	22+	.0	•0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT \$.0	•2	.1	.9	2.6	.5	•	.0	.0	1.0	5.4		
	0-3	.1	.1	.2	1.8	5.7	1.8	:17	.1	.0	6.8	16.9		
10+	4-10	.5	.3	.9	9.9	33.4	9.8	•!	.1	.0		55.6		
	11-21	.0	•1	.1	3.5	16.2	1.3	.1	.0	.0		21.3		
	22+	.0	•	.1	0	2	0	.0	.0	.0		.2		
	TOT %	.6	.5	1.2	15.3	55.5	13.0	.9	.2	.0	6.8	94.0		
	nT 085												1227	
7	INT PET	.6	.7	1.4	16.3	58.4	13.5	.9	.2	.0	7.8	100.0		

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									FEBRU	ARY						
PERIOD	(PRIMARY)	1907-1							TABLE	10			AF		ANTOFAGA	STA .7W
					PER	CENT F	REQUEN	CURREN	CEILIN	NH <5/	HTS (F	EET, NH	>4/8) 4	ND		
		HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	80004	TOTAL	NH <5/8	TOTAL	
		60300	.0	.0	.5	7.4	15.8	13.4	4.5	1.0	.5	.0	43.1	56.9	202	
		90300	.5	.0	1.4	7.9	27.8	10.2	5.6	.9	.5	1.4	56.0	44.0	216	
		12615	•0	.0	.0	12.9	27.7	17.8	5.0	2.5	.0	.0	65.8	34.2	202	
		18621	•0	.0	.6	4.2	11.9	14.9	3.0	1.2	1.2	.6	37.5	62.5	168	
		TOT PCT	.1	.0	.6	8.2	168	110	36 4.6	11	.5	.5	404 51.3	384 48.7	788 100.0	

			т	ABLE 1	1						TABLE	12		
		PERCENT	FREQUENC	Y V\$BY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	AND/DR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
E0300	•0	.0	.7	.3	4.4	94.6	294	00803	.0	.5	8.2	36,4	55.4	195
06609	.0	.0	.2	.2	7.4	92.1	407	90300	.5	1.9	10.0	47.4	42.7	211
12615	.0	.0	.0	1.1	6.3	92.6	272	12615	.0	.0	13.0	53,5	33.5	200
18621	.0	.0	.0	.0	3.0	97.0	270	18621	.0	.6	4.9	33,5	61.6	164
TOT PCT	.0	.0	.2	.4	5,5	1167	1243 100.0	TOT	.1	. 6	9.2	333 43,2	366 47.5	770 100.0

				7	ABLE 1	3									TABL	E 14				
	PERCI	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY BY	Y TEMP	TOTAL	PCT		PERC	ENT FR	EQUEN	Y OF 1	IND DI	RECTION	BY T	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	•0		.5	.2	.5	.1	.0	11	1.3	.1	•1	.0	•2	.7	.2	.0	.0	.0	•0
75/79	.0	.0	.0	1.2	2.2	3,5	.7	. 5	67		.0		.2	1.4	4.9	. 8	. 3		.0	.6
70/74	.0	.0	.0	2.0	13.7	18.7	11.1	3.9	404	49.4	.4	.3	.9	10.7	26.7	6.6	.4	.3	.0	3.1
65/69	.0	.0	.0	. 4	7.2		13.3	4,3	307	37.6	.4	.3	.6	4.7	24.4	5.2	. 2	.0	.0	1.8
60/64 TOTAL	.0			.1	.2	.7	1.5	.9	28	3.4	.0	.0	.0	.7	2.1	.5	.2	.0	.0	.0
PCT	.0	.0	•0	4,2	193 23.6	35.9	26,8	9.5	817	100.0	.9	.7	1.7	17.6	58.8	13.3	1.1	.4	.0	5.5

				TA	LE 15									TABLE	16			
	MEANS,	EXTREM	ES AND	PERCE	NTILES	OF TE	MP (DE	G F) 8	Y HOUR		PERC	ENT FRE	QUENCY	OF RELA	TIVE H	MIDITY	BY HOUR	
HOUR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	HEAN	TOTAL
00803	86	78	76	70	66	64	60	70.2	636	00803	.0	2.5	22.1	34.8	30.9	9.8	77	204
06609		75	73	68	64	61	58	68.5	1253	90300	.0	.0	14.1	38.7	35.5	11.7	79	248
12615		79	75	70	65	63	62	69.9	593	12615	.0	3.4	26.0	32.4	26.0	12.3	76	204
18621	89	84	80	73	67	63	62	73.4	1298	18621	.0	12.4	35.6	36.2	11.9	4.0	70	177
TOT	89	81	77	70	65	63	58	70.7	3780	TOT	0	34	196	297	225	81	76	833

FEBRUARY

PERIOD: (PRIMARY) 1907-1978 (OVER-ALL) 1870-1978

TABLE 17

AREA 0030 ANTOFAGASTA 22.15 71.7W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	69 72	73 76	77 80	81 84	85 88	TOT	FOG	FOG	
11/13	.0	.0	:1	.0	:1	:2	:1	?	:0	:8	
9/10	.0	.0	• •	• 2	• •	. 2	.0	6	.0	!	
7/8	.0	.0	.1	. 5	.2	. 2	.0	9	.0	1.1	
•	.0	.0	.4	:5	:6	. 1	.0	10	.0	1.2	
5	.0	.0	.5	.5	.6	.0	.0	15	,0	1.8	
4	.0	.1	.6	.7	.6	.0	.0	17	00000	2.0	
3	.1	1.2	1.9	. 8	.2	.0	.0	36	.0	4.3	
2	.0	1.6	2.6	.7	.6	.0	.0	57	.0	1.2 1.8 2.0 4.3 6.8	
1	.0	1.9	3.1	2.7	.2	.1	.0	68	.0	8.1	
ō	.4	4.8	5.4	3.0	.2	.0	.0	119	.0	8.1	
-1 -2 -3	.4	3.9	6.3	1.7	.1	.0	.0	104	.0	12.4	
-2	.6	5.7	6.8	2.6	.2	. 1	.0	135	.0	16.1	
-3	.5	3.0	6.9	1.4	.0	.0	.0	99	.0	11.8 9.4 4.3 2.3	
-4	.2	3.2	4.5	1.4	.0	.0	.0	79	.0	9.4	
-4	.1	1.9	1.9	.4	.0	.0	.0	36	.0	4.3	
-6	:1	. 4	1.9	.2	.0	.0	.0	19	.0	2.3	
-7/-8	.1	. 7	.7	. 2	.0	.0	.0	15	.0	1.8	
-9/-10	. 1	.7	.4	.0	.0	.0	.0	6	.0	.7	
-11/-13	.0	.0	.1	.0	.0	.0	.0	ī	.0	.1	
TOTAL	24	••	368	•	35	•	1	•	0	838	
		242		159		9	•	838			
PCT	2.9	28.9	43.9	19.0	4.2	1.1	. 1	100.0		100.0	

PERIOD: (OVER-ALL) 1963-1978

ABLE 18

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	CTION V	ERSUS S	EA HEIG	HTS (FT		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6		•0	.0	.0	.0	.0	.0	.04.00.00.00.00.00.00.00.00.00.00.00.00.
1-2	.5	.0	.0	.0	.0	.0	.0		.3	.1	.0	.0	000000000000000000000000000000000000000	.0	.4
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	000000000000000000000000000000000000000	.0	.0	.0	.0	.0
TOT PCT	,5	.6	.0	.0	.0	.0	1,1		,3	.1	.0	.1	.0	.0	.5
												SF			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3	.0	.0	.0	.0	,3		.0	1.4	.3	.0	.0	.0	1.7
1-2	.0	.9	. 3	.0	.0	.0	1,2		.7	5.3	1.5	.0	.0	.0	7.5
3-4	.0	.6	.0	.0	.0	.0	.6		.0	2.0	2.9	.0	.0	.0	4.9
5-6	.0	.0	.0	.0	.0	.0	000000000000000000000000000000000000000		.0	.2	1.6	.0	.0	.0	1.8
7	.0	.0	.0	.2	.0	.0	.2		.0	. 3	.3	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.1
10-11	.0	0	0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0			.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		:0	.0	.0	.0	.0	.0	.0
24-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	. 0
26-32 33-40	.0	.0	.0	.0	.0	.0	- 0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	- 0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	:0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCY	.0	1.8	.0	.2	.0	.0	000000000000000000000000000000000000000		.0	.0	6.7	.0	000000000000000000000000000000000000000	.0	PCT 1.75 4.9 1.8 .0 .0 .0 .0 .0 .0 .0 .0 .0
	• •	1.0		• 6					• •		9.1	• •		• •	10.0

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									FEBRU	JARY							
PERIOD:	LUVE	N-ALL)	1963-1	478				TABLE	18 (CONT				AREA	0030		L. TW
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND	DIREC	TION V	ERSUS S	EA HEIG	HTS (FT	,		
HGT	1-3			\$							4-10		22-33	34-47			
<1		4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21		34-47	48+	PCT	
1-2	2.1	17.9	5.8	.0	.0	.0	2.2			.4	2.4	.3	.0	.0	.0	1.2	
3-4		11.3	11.9	.0	.0	.0	25.8			.6	2.7	1.7	.0	.0	.0	5.1	
5-6	.0	2.3	5.1	.0	.0		7.4			.0		.6	.0	.0	.0	1.1	
7	.0	.,3	2.0	.3	.0	.0	2,5			.0	.3	.0	.0	.0	.0	.3	
8-9	.0	.0	.2	.0	.0	.0				.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	• •	.0	:0	.0	:3			.0	:0	.0	.0	:0	.0	.0	
12	.0	.0	.0	.0	:0	.0	.,			.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	:0			.0	.0	.0	:0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	·o	.0	.0	
23-25	.0	.0	:0	.0	:0	.0	:0			.0	.0	.0	.0	:0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	, 0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	, o	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	ö	.0	.0	
TOT PCT	3.2	33.5	25.3	.3	.0	.0	62,2			1.5	6.5	2.9	.0	·o	.0	11.0	
				.,	••		0.,-			•••			••	••		11.0	
													NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.0	.0	.0	.0	.0	.2			.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.3	.2	.0	.0	.0	. 5			.1	.0	.0	.0	.0	.0	.1	
3-4	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	٥٠	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	. 0			.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	- 0			.0	. Q	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	. 0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
TOT PCT	. 2	.3	.?	.0	.0	.0	.7			.1	.0	.0	.0	.0	.0	.1	94.4

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.9	4.4	.6	.0	.0	.0	11.9	003
1-2	5.3	20.6	8.0			.0	39,9	
3-4	1.1	16.3	16.3			.0		
5-6	.0	3.0	7.2			.0	10.2	
7	.0	. 8	2.2			.0	3,6	
8-9	.0	.0	. 3			.0	.3	
10-11	.0	.0	.3	.0		.0		
12	.0	.0	.0			.0		
13-16	.0	.0	.0			.0		
17-19	.0	.0	.0			.0	.0	
20-22	.0	.0	.0			.0		
23-25	.0	.0	.0			.0		
26-32	.0	.0	.0			.0	.0	
33-40	.0	.0	.0			.0	,0	
41-48	.0	.0	.0			.0	.0	
49-60	.0	.0	.0			.0	.0	
61-70	.0	.0	.0			.0	.0	
71-86	.0	.0	.0			.0	.0	
87+	.0	.0				.0	.0	
0/4		.0	•0	• •		••	.0	361
TOT PCT	13.3	51.2	34.9	.6	0	.0	100.0	301
			21/21/2020					

PERIO): (DV	ER-ALL) 194	9-1978	1				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HEI	GHT (F	7) VS	WAVE P	ERIOD	(SECON	DS)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	HEAN
<6	2.2	6.0	15.2	7.3	1.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	3
6-7	.3	1.4	9.4	9.9	3.6	.7	.3	. 2	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	151	5
8-9	.0	1.2	3.2	6.1	5.8	2.4	2.4	.0			.0			.0	.0	.0	.0	.0	.0	125	6
10-11	.0	.5	1.2	2.2	2.4	1.4	.9	. 2			.0				.0	.0	.0	.0	.0	52	6
12-13	.0	.0	1.7	.2	.3	.9	.2	. 2			.0			.0	.0	.0	.0	.0	.0	21	6
>13	.0	.0	.0	.3	.5	.3	.2	.0			.0			.0	.0	.0	.0	.0	.0	- 0	8
INDET	1.0	. 9	.3	2.2		.7		.3	.2		.0				.0	.0	.0	.0	.0	38	5
TOTAL	21	58	182	166	83	39	28	5	3	0	o	0	O	0	0	Ö	ő	o	0	587	5
PCT	3.6	9.9	31.0	28.3	14.1	6.6	4.8	. 9	. 9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1909-1978 (OVER-ALL) 1871-1978 TABLE 1

AREA 0030 ANTOFAGASTA 22.25 71.6W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

				RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DL BLWG SM	IST SIG
N NE	.0	.0	.0	:0	.0	:0	.0	:0	:0	.0	:0	:0	:0	:	
E SE	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.2	.0	.0	.0	.0	.2	•1	.0	.0	.0	3.2	.0	99.5
NW W	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0	•0	10.3		
CALM	.0	.0	.0	.0	.0	.0	.0	:0	.0	:0	.0	.0	2.2	.0	
TOT PCT TOT OBS:	1207	.1	.3	•0	•0	•0	.0	.5	•1	.0	.0	•0	.6	.0	98.8

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	.0	.0	.3 .6 .3	.0	.0	.0	.0	1.1 .3 .3	.0	.0	.0	•0	.3 .9 .7 .7	.0	99.3 98.0 98.7 99.0
TOT PCT	1231	.1	.4	.0	.0	.0	.0	.6	•1	.0	.0	•0	.6	.0	98.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR		WIN	D SPE	D (KN	ots)	40.			MEAN	••		••	HDUR 09				
WAD DIK	0-3	4-10	11-21	24-33	34-47	48+	OBS	FREQ	SPD	00	03	06	09	12	15	18	21
N NE	.4	.7		•	.0	.0		1.2	4.9	.2	.0	1.7	1.7		.0	1.5	1.3
	• 7		.1	:	,0	.0		1.5	5.5	3	•0	1.4	5,8	2.2	.0	1.2	2.0
E SE	9	1.8	2			.0		2.8		1.1	0	2.8		4.1	3.4	2.1	1.4
36	3.0	14.2	4.4	1	.0	.0		21.7	7.8	16.4	23.1	19.6	24.1	25.1	32.4	23.9	19.2
5	8.6	34.4	10.5	.5	.0	.0		54.0	7.7	64.0	67.9	53.6	43.9	48.2	52.8	54.4	59.8
SW	2.0	6.6	1.3	.1	.0	.0		10.0	7.0	12.3	6.4	9.6	8.0	8.6	6.8	10.3	12.3
W	.4	.5		.0		.0		.9	5.0	.7	.0	1.2	.6	1.1	.0	. 9	.5
NW	.3	.7	.0	.0		.0		1.0	4.8	.1	2.6	1.4	.,	. 9	.0	1.1	1.4
VAR	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	7.0			• •	•••			7.0	.0	4.9	.0	8.6		9,3	4.5	4.7	2.2
TOT OBS	1036	2661	733	35	0	0	4465		6.9	754	39	886		668	44	1071	369
TOT PCT	23.2	59.6	16.4	.8	.0	.0		100.0		100.0			100.0				

-	ARI	34

WND DIR	0-6	7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	HDU1 06 09	12 15	18
N	1:3	.2	:	:0	:0		1.2	4.9	:3	1.7		1.5
NE				.0			1.3	4.7		2.0	2.1	1.4
E	2.0	.7	.1	.0	.0		2,8	5.5	1.1	4.1	4.1	1.9
SE	10.0	10.8	.9	.0	.0		21.7	7.8	16.7	21.5	25.6	22.7
5	25.2	26.5	2.1	.1	.0		54.0	7.7	64.2	49.5	48.5	55.8
SW	5.7	3.8	. 5		.0		10.0	7.0	12.0	8.9	8.5	10.8
W	.6	.3	.0	.0	.0		.9	5.0	.6	1.0	1.1	. 8
NW		.2	.0	.0	.0		1.0	4.8	.2	1.2	. 8	1.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.0	•••	•	•••	•		7.0	.0	4.7	10.0	9.0	4.0
TOT OBS	2389	1911	160		0	4465		6,9	793	1520	712	1440
TOT PET	52.5	42.8				4100	100 0	•••				
TOT PCT	53.5	42.8	3.6	.1	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1909-1976 (DVER-ALL) 1871-1976

TABLE 4

AREA 0030 ANTOFAGASTA 22.25 71.6W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	OBS
£0300	4.7	11.0	60.3	22.7	1.4	.0	.0	8.1	100.0	793
90300	10.0	20.9	56,3	12.2	.6	.0	.0	6.0	100.0	1520
12615	9.0	18.1	57.6	14.6	.7	.0	.0	6.6	100.0	712
18621	4.0	13.3	63.7	18.3	.7	.0	.0	7.5	100.0	1440
TOT	311	725	2661	733	35	0	0	6.9		4465
DCT	7.0	16.2	4. P.	14.4	A	. 0	. 0		100 0	

TARLE

,	PCT FREQ OF TOTAL CLUUD AMOUNT (EIGHTHS) BY WIND DIRECTION MEAN							PERCENTAGE FREQUENCY OF CEILING MEIGHTS (FT,NH >4/ AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										3)
WND DIR	0=2	3-4	5-7	8 & n85CD	TOTAL	CLOUD	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N	.1	.0	.2	.1		4.7	.0	.0	.0	.1	.0	.1	.1	.0	•0	.0	.1	
NE		• 1	• 1	.3		6.3	.0	.0	.0	. 3	.0		.0	.0	.0	.0	. 2	
E	. 1	.2	.2	. 8		6.4	.0	.0	.0	.2	.4	.1	.1	.1	.0	.0	.5	
SE	2.6	2.2	7.6	8.8		6.1		.0	. 9	2.8	5.5	3.3	. 8	. 3	.0	. 1	7.6	
S	12.8	7.0	18.7	21.2		5.4	.1	.0	2.2	4.4	14.8	9.8	2.3	. 8	.5	. 3	24.6	
SW	3.0	1.4	2.6	4.4		5.0	.0	.0	.1	.6	2.8	1.3	.6			. 2	5.9	
W	. 1	.1	.4	.6		6,5	.0	.0	.0	. 2	. 3	. 4	.0	. 1	.0	.0	. 2	
NW	. 3	. 1	.3	. 2		4.5	.0	.0	.0	.0	.3	. 2	.0	.0	.0	.0	.4	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	. 3	1.3	1.0		4.8	.0	.0	.0	. 2	. 4	1.0	.1	.0	.0	.1	1.7	
TOT OBS	188	107	295	350	940	5.5	1	0	30	81	231	151	37	12	5	6	386	940
TOP OCT	20.0	11 4	21 4	27 9	100 0	3.5	1	- 0	2.2	8.4	24.6	16 1	2 0	1.3		6	41.1	100.0

TABLE 7

CUMULATIVE PCT FREQ	OF SIMULTANEOUS	DECURRENCE
OF CEILING HEIGHT	(NH 34/8) AND V	BY (NH)

				VSBY (NM)			
CEILING	• DR	- OR	 DR 	- OR	• OR	- OR	• OR	- DR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
- DR >6500	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
■ NK >5000	2.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4
■ RR >3500	5.3	6.5	6.5	6.5	6.5	6.5	6.5	6.5
■ NK >2000	19.1	22.5	22.5	22.5	22.5	22.5	22.5	22.5
- OR >1000	41.8	47.1	47.2	47.2	47.2	47.2	47.2	47.2
■ NR >600	49.5	55.5	55.6	55.6	55.6	55.6	55.6	55.6
■ DR >300	52.5	58.6	58.7	58.7	58.7	58.7	58.7	58.7
■ OR >150	52.5	58.6	58.7	58.7	58.7	58.7	58.7	58.7
- DR > 0	52.6	58.7	58.8	58.8	58.8	58.8	58.8	58.8
TOTAL	504	562	563	563	563	563	563	563

TUTAL NUMBER OF OBS1 958

PCT FREQ NH <5/81 41.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 0BSC0 TOTAL 0BS 9,5 9,6 8,1 7,9 5,5 5,9 7,7 12.3 33,4 .0 1032

40454

100100	(PRIMARY)	1909-1978
	INVER-ALL Y	1071 1070

TARLE 8

REA 030 A'ITDFAGASTA 22.25 71.6W

		PE	RCENT	PREC	DF WIN	D DIRE	TH VAR	ING VA	LUES I	DF VIS	IBILI	CURRENC	E OF
V58Y		N	NE	F	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	. 1	
	TOT *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	. 1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	.0	.0	. 1	.0	. 1		.0	.0	.0	.0	.2	
	TOT %	.0	.0	. 1	.0	.1		.0	.0	.0	.0	. 2	
	PCP	.0	.0	.0	.1	.1		.0	.0	.0	.0	.2	
5<10	NO PCP		.1	.3	2.7	6.9	1.1	. 1	.0	.0	.6	11.9	
	TOT *		.1	.3	2,8	7,1	1.2	.1	.0	.0	.6	12.1	
	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
10+	NO PCP	.4	. 3	1.3	17.5	53.6	9.3	1.0	. 8	.0	3.2	87.3	
	TOT &	. 4	. 3	1.3	17.7	53.6	9.3	1.0	. 8	.0	3.2	87.6	
	TOT 065												120
	TOT PCT	. 4	. 4	1.7	20.5	60.8	10.5	1.1	. 8	.0	3,8	100,0	

.....

VSBY	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(NM)	KTS				-	•					****	,	DBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	• 0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT *	.0	.0	.0	• 0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	•0	•0	•0	.0	.0	.0	.0	-1	• 1	
	0-3	.0	.0	.0	•0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	• 1	• 1	. 2		.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	• 1	• 1	. 2		.0	.0	.0	.0	.4	
	0-3	.0	.0	.1	.2	.6	.3	.0	.0	.0	.6	1.8	
5<10	4-10	.0	.1	.2	1.1	3.9	.7		.0	.0		6.0	
	11-21	.0	.0	.0	1.1	1.7	. 2	.0	.0	.0		3.1	
	224			.0		. 2	. 1	.0	.0	.0		.3	
	TOT %		•1	• 2	2.4	6.4	1.3		.0	.0	.6	11.1	
	0-3	.2	.1	• 2	1.4	5.5	1.7	.2	.2	.0	4.7	14.3	
10+	4-10	.2		.7	10.4	33.8	6.7	.7	. 5	.0		53.1	
	11-21	.0	• 1	. 2	5.4	13.1	1.5	.0	.0	.0		20.2	
	22+	.0	.0	.0	.2	.7		.0	.0	.0		.9	
	TOT %	.4	.2	1.1	17.4	53.1	10.0	. 9	.7	.0	4.7	68.4	
	OT DBS												1536
	IT PET	.4	.3	1.4	19.9	59.7	11.3	1.0	.7	.0	5.3	100.0	

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1.6

1.6

1.2 68.1

53.0

253

.8 47.0

PERIOD: (PRIMARY) 1909-1976
(DVER-ALL) 1871-1978

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND

DCCURRENCE OF NH <3/8 BY HOUR

HOUR 000 150 300 600 1000 2000 3500 5000 6500 8000+ TOTAL NH <5/8 TOTAL ANY HGT OBS

00603 .0 .0 4.8 5.2 25.3 16.2 2.6 .4 .9 .0 55.5 44.5 229

06609 .0 .0 3.5 8.7 23.2 16.5 4.7 1.2 .4 .4 58.7 41.3 254

5.9 17.4 13.8 4.0

81 236 154 39 8.2 24.0 15.7 4.0

TABLE 11 TABLE 12 CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NM >4/8),BY HOUR PERCENT FREQUENCY VSBY (NM) BY HOUR 10+ TOTAL OBS <1/2 1/2<1 2<5 5<10 HDUR <150 <600 <1000 1000+ NH <5/8 (GMT) <50Y0 <1 <5 AND5+ AND 5+ 00603 .6 12.3 351 00803 .0 .0 87.2 5.0 10.4 06609 .0 .2 15.8 494 .0 .0 90300 12615 .3 .9 12815 .0 .0 10.9 341 18621 .0 .3 .0 375 18821 2.5 8.6 51.4 243 TOT

TABLE 13 TABLE 14 PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP PERCENT FREQUENCY OF WIND DIRECTION BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DB5 FREQ TEMP F VAR CALM .0 .0 .3 .1 2.2 .0 14.6 6.1 15.4 15.7 1.9 2.8 366 263 34.3 24.7 85/89 80/84 75/79 70/74 65/69 60/64 TOTAL PCT .1 .3 2.5 13.4 7.9 .5 263 24.7 .0 2.1 2.5 1.2 .0 62 5.8 .0 .0 2.5 4.6 2.8 106 9.9 3 .3 8 .6 73 6.8 420 39.4 477 44.7 85 8.0 1066 100.0 .1 .3 1.4 9.9 8.0 .2 .1 .0 .2 .0 .0 .0 .0 .1 .0 .0 .0 .0 .0 .4 .7 .0 000000000 .000000 1.6 20.6 59.5 11.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR MAX 99% 95% 50% 3% 1% MN MEAN TOTAL (GMT)
06003 83 77 74 68 64 61 60 68.0 784
06609 80 74 73 66 62 60 59 66.8 1541
12615 83 77 74 68 63 61 61 66 703
18821 89 83 78 72 66 63 60 71,8 1347
TOT 89 80 76 69 63 60 59 68,9 4375

12615

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HDUR 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL OBS 002603 .0 3.7 26.5 36.3 25.3 8.2 75 245 06269 .0 1.9 14.6 32.6 32.9 18.0 79 322 12215 .0 4.4 23.3 36.7 25.9 9.6 76 270 12215 .0 4.4 23.3 36.7 25.9 9.6 76 270 12217 .0 16.1 35.8 31.9 11.8 4.3 69 254 707 0 68 266 374 268 115 75 1091

MARCH

PERIOD: (PRIMARY) 1909-1976 AREA 0030 ANTOFAGASIA (OVER-ALL) 1871-1978 TABLE 17 22,25 71.6M

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	57	61	65	69	73	77	81	TOT	W	WD	
THP OIF	60	64	68	72	73 76	80	84		FDG	FDG	
11/13	.0	.0	.1	.0 .5 .9 .4 .2 .8 1.1	.2 .3 .4 .4 .9	.0	.0	4 9	00000000	2.1 1.2 1.8 3.4 4.4 7.5 13.7	
9/10	.0	.0	. 2	. 5	. 2	.0	.0	9	.0	. 8	
7/8	.0	.0	. 3	. 9	.3	. 4	.3	23	.0	2.1	
5	.0	.0	.1	. 4	.4	, 3	. 1	13	.0	1.2	
5	.0	. 1	.5	. 2	.4	.5	.1	20	.0	1.8	
4	.0	. 2	.1	. 8	. 9	. 5	.0	38	.0	3.4	
3	.1	. 6	1.2	1.1	1.0	.5	.0	49	.0	4.4	
2	.1	. 4	1.9	3.2	2.0	, 5	.0	87	.0	7.8	
1	.0	.0	2.3	2.9	2.0	.5	.0	83	.0	7.5	
0	.1	1.2	5.3	4.3	2.4	.4 .5 .5 .5 .5 .5	.0	152	.0	13.7	
-1	.1	. 7	4.1	5.8	1.7	. 1	.0	138	.0	12.4	
-2	.0	1.1	5.2	5.9	2.1	. 1	.0	160	.0	14.4	
1 0 -1 -2 -3	.0	. 5	3.7	5.9	1.0	.0	.0	113	.0	10.2	
-4	.0	1.1	3.1	3.8	. 8	. 1	.0	99	.0	8.9	
-5	.1	. 5	1.6	3.0	.8	.1	.0	62	000000000	10.2 8.9 5.6	
-6	.0	.3	1.3	1.2	.3	.0	.0	34	.0	3.1 1.8	
-7/-8	.0	. 3	.5	. 9	.1	. 0	.0	20	.0	1.8	
-9/-10	.0	. 3	.1	. 2	. 0	. 0	.0	6	.0	. 5	
-11/-13	.0	. 1	.0	.0	.0	.0	.0	ī	.0	. 1	
TOTAL	4	• •	359	• •	174	••	7	•	0	1111	
1-1-6	7	85	•	442	• • • •	40	•	1111			
PCT	.4	7.7	32.3	39.8	15.7	3.6	.6	100.0		100.0	

PERIOD: (DVER-ALL) 1963-1978

TABLE 18

				PC	T FREQ	OF MIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE	-	0.20	
HGT <1	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	.0	.2	.0	.0	.0	.0	.2		.3	.0	.0	.0	.0	.0	.3
3-4	.0	.2	.0	.0	.0	.0	.2		.0	.2	.5	.0	.0	.0	.3
5-6		.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	. 2
7	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	• 0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• •	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	. 0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	:0	.0	.0	• 0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	•0	.0		.0	.0	.0	.0	.0	.0	.0
87+	0	.0	.0	.0	.0	• 0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.0	.0	.0	•0	. 3		.3	.3	. 2	.0	.0	.0	.0
	7.0														
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	SE 22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.6		.2	.5	.3	.0	.0	.0	1.0
1-2	.0	.6	.2	.0	.0	.0	. 8		.2	7.1	4.3	.0	• 0	.0	11.7
3-4	.0	.6	.0	.0		.0	,6		.0	1.9	4.0	.0	• 0	.0	5.9
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.2	2.3	.5	• 0	.0	3.0
7	.0	.0	.6	.0	.0	.0	.0		.0	.0	.3	:1	• 0	.0	3.6
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.2	.4	.0	.0	.0	:7
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	. 0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	. 0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	,0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.4	.2	.0	.0	.0	2.0		.4	10.0	11.7	.6	.0	.0	22.7

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									MA	RCH							
PERIOD:	COVER			1978										AREA	0030	ANTOFAC	
		-						TABLE	10	(CONT)					22.	25 71	1.6W
				PC	T FREQ	OF WIN	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT			
				5									SW				
HGT <1	1-3	4-10	11-21	22-33	34-47	48+	3.8			1-3	4-10		22-33	34-47	48+	PCT	
1-2	.7	2.7		.0	.0	.0				.7	2.7			.0	.0	.8	
3-4	.3	11.7	6.7	.0	.0	.0	22.5			.3	2.2			.0	.0	3.7	
5-6	.0	3.2	4.7	.8	.0	.0	8.7			.0	1.1			.0	.0	2.4	
7	.0	.0	1.9	.8	.0	.0	2.7			.0	. 0			.0	.0	.2	
8-9	.0	.0	.0	.4	.0	.0				.0	.0			:0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
12	.0	.0		.0	.0	.0	.0			.0	.0			. 0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	. 0	.0	.0	
17-19	.0	.0	.0	.0	.0		.0			.0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	. 0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
87+	.0	.0	0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
TOT PCT	1.9	33.8	19.1	2.0	.0	.0	56,8			1.0	6.7	2.2	.2	.0	.0	10.1	
				w									NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10			34-47	48+	PCT	PCT
<1	. 2	.2	.0	.0	.0	.0	. 4			.0	1.2		•0	.0	.0	1.2	
1-2	.0	.7	.0	.0	.0		/			.0	.0				.0	.0	
3-4	.0	. 2	.0	.0	.0					.0	.1				.0	. 1	
5-6	.0	.0	• • • •	.0	.0	.0	. 0			.0	.0			. 0	.0	.0	
7	.0	.0	• 0	.0	.0	.0	.0			•0	.0			.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			•0	.0			.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
17-19	.0	.0	.0	.0	.0		.0			.0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0		.0			.0	.0			:0	.0	.0	
23-25	.0	.0	.0		.0		:0			.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	ě		.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0		.0			.0	.0			:0	.0	.0	
41-48	.0	.0		.0	.0	.0	.0			.0	.0			,0	.0	.0	
49-60	.0	.0		.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0		.0	.0	.0			.0	.0			.0	.0	.0	
71-96	.0	.0	.0	.0	.0		. 0			.0	.0			- 0	.0	.0	
87+	.0	.0	-0	.0	.0	.0	. 0			.0	.0	.0		.0	.0	.0	
TOT PCT	. 2	1.1	.0	.0	.0	.0	1,3			.0	1.2	.0		.0	.0	1.2	95.4

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	7.0	5.7	.7	.0	.0	.0	13.4	
1-2	1.8	27.6	10.3	.0	.0	.0	39.7	
3-4	.7	16.7	11.2	.0		.0	28.5	
5-6	.0	4.4	8.1	1,5	.0	.0	14.0	
7	.0	.0	2.4	.9	.0	.0	3.3	
8-9	.0	. 2	.4	.4	.0	.0	1.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
make weak								456
TOT PCT	9.4	54.6	33.1	2.9	.0	.0	100.0	

AREA 0030 ANTOFAGASTA 22.15 71.5W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

					-										
			P	RECIPI	TATIO	N TYPE					OTHER	HEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	POS NO POPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N_	.0	.0	5.6	.0	.0	.0	.0	5,6	.0	5.6	.0	.0	.0	.0	88.7
NE	1.4	.0	5.7	.0	.0	.0	.0	7.1	.0	5.7	.0	.0	5.7	.0	81.4
E	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	5.8	.0	89.9
SE	.0	. 5	.5	.0	.0	.0	.0	.9	1.5	.0	.0	.0	.5	.0	97.1
S	.0	.3	.2	.0	.0	.0	.0	.4	•1	.0	.0	.0	.1	.2	99.2
SW	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.8	.0	97.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	97.3
TOT PCT	.1	.3	.3	.0	.0	.0	.0	.8	.3	.2	.0	.0	.7	.1	97.9

TABLE 2

					PE	ERCENT	FREQUE	NCY OF WE	ATHER OCCUR	RENCE	84 HOU	R			
			9	RECIPI	TATION	TYPE					DTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06809 12815 18621	.0	.6	.4	.0	.0	•0	.0	1.4 .7 .0	1.0	.0	.0	.0	2.1 2.4	.0	98.5 97.5 96.2 99.6
TOT PCT TOT OBS:	1175	.3	.3	•0	.0	•0	•0	.8	.3	.2	.0	•0	.8	.1	97.9

TABLE 3

	•																
	•			PERC	ENTAGE	FREQUE	NCY DE	WIND D	IRECTIO	N BY SPI	EED AN	D BY H	DUR				
				ED (KN										(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	1.1	1.4	.3	.0	.0	.0		2.8	5.4	1,3	.0	3.9	4.8	3,4	.0	1.6	2.4
NE	. 8	1.3	.1	.0	.0	.0		2.2	5.3	1.2	3.0	2.2	4.6	2.2	.0	1.3	3.1
E SE	1.4	1.9	.2	.0	.0	.0		3.6	5.0	1.6	.0	4.1	5.9	4.2	2.7	3.5	1.6
SE	3.5	12.2	4.8			.0		20.6	7.9	16.8	29.5	18.7	21.0	25.4	27.7	22.7	16.2
S	8.2	30.3	10.7	.3	.0	.0		49.6	7.8	55.2	50.0	48.5	41.7	46.9	37.5	51.0	55.0
SW	2.2	5.9	1.3			.0		9.5	6.7	13.5	11.4	8.4	5.4	6.1	17.9	10.5	13.1
W	.4	.6	.0			.0		1.0	4.5	1.0		1.0	1.0	1.1	.0	1.1	1.0
NW	.4	1.1	.1			.0		1.6	6.5	.7	3.0		1.4	. 9	.0	3.0	2.0
VAR	.0	.0	.0			.0		.0	.0	.0	.0	.0	.0		.0		. 0
CALM	9.2							9.2	•0	8.8	3.0	12.2	14.2	9.8	14.3	5.4	5.7
TOT UBS		2394	766	22	0	0	4372		6.7	717	33	884	597	633	28	1112	368
TOT PCT	27.2	54.8	17.5		.0			100.0						100.0			

PA	8	L	E	3	A

WND DIR	0=6	7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	HOUR 06 09	12 15	18 21
N	1.9	.8		:0	:0		2,8	5.4	1.2	4.3	3,3	1.8
NE	1.5	.7		.0	.0		2.2	5.3	1.2	3.2	2.1	1.7
	2.7	. 8		.0	.0		3.6	5.0	1.6	4.8	4.2	3.0
SE	9.6	9.6	1.4	.0	.0		20,6	7.9	17.4		25.5	21.1
5	23.4	23.6	2,6		.0		49.6	7.8	55.0		46.5	52.0
SW	5.5	3.8	.2		.0		9.5	6.7	13.4	7.2	6.6	11.1
W	.9	.1	.0	.0	.0		1.0	4.5		1.0	1.0	1.0
NW	.9	.7	• • •									
	• • •			.0	.0		1.6	6.5	.8	1.2	. 9	2.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.2						9.2	.0	8.5	13.0	10.0	5.5
TOT DBS	2430	1749	192	1	0	4372		6.7	750		661	1480
TOT PCT	55.6	40.0	4.4	•	.0		100.0			100.0		

0' 0

PERIOD: (PRIMARY) 1909-1977 (DVER-ALL) 1871-1977

TABLE 4

AREA 0030 ANTOFAGASTA 22.15 71.5W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				WIND	SPEEU (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21			48+	MEAN	FREQ	DBS
00603	8.5	14.5	52,9	23.3	.7	.0	.0	7.5	100.0	750
90300	13.0	21.7	50.9	13.8	. 5	.0	.0	5.9	100.0	1481
12615	10.0	16.5	55.5	17.5	. 5	.0	.0	6.8	100.0	661
18621	5.5	16.6	59.2	18.3	.4	.0	.0	7.2	100.0	1480
TUT	404	786	2394	766	22	0	C	6.7		4372
PCT	9.2	18.0	54.8	17.5	. 5	.0	.0	-	100.0	

													200					
P	CT FRE			LUUD A		(EIGHTHS)							CEILIN NH <5/					
WND DIR	0=2	3-4	5-7	03500	TOTAL	CLOUD COVER	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.2	.1	.5	.1		5,2	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.3	
NE	. 1	. 1	. 2	. 4		5,5	.0	.0	.0		. 3		.0	.0	.0	.0	. 4	
E	.3	.0	.7	. 7		5,9	.0	. 1	.0	.1	. 8	.1	.3	.0	.0	. 0	.4	
SE	1.1	1.8	5.8	10.8		6.7	.1	. 4	. 4	2.5	5.8	3.8	1.4	. 5	.1	. 3	4.2	
5	11.6	5.0	15.2	27.0		5,8	.3	.1	.6	6.6	17.0	9.3	3.0	1.0	.2	.6	20.0	
SW	1.9	1.2	2.0	4.5		5.7	.0	.0	.0	1.0	3.0	1.3	.3		.0	• •	3.9	
W	.6	.3		4.5				.0	.0					• 1		•		
	• •		•0	• •		4.4	.0		• "	• 2	• •	• 1	.0	.0	• 0	.0		
NW	• 1	• 1	.4	. 2		6.0	.0	.0	. 1	.0	.1	.1	. 1	.0	.0	.0	. 2	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6	. 2	. 8	3.7		5,8	.0	.0	. 1	.7	1.8	1.2	. 3	.0	.0	. 2	1.9	
TOT OBS	156	78	227	430	891	5.9	4	5	11	101	262	144	49	14	3	10	288	891
TOT PCT	17.5	8.8	25.5	48 3	100.0		. 4	. A	1.2	11.3	20.4	16.2	5 5	1.6	2	1 1	22 2	100 0

TABLE 7

						OF SIMU				
						VSBY (NM	11			
	C	EILING	DR	- DR	- DR	- DR	· DR	 DR 	- OR	= UR
		FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
	OR	>6500	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	DR	>5000	2.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0
•	OR	>3500	6.9	8.5	8.5	8.5	8.5	8.5	8.5	8.5
•	OR	>2000	20.8	24.3	24.6	24.6	24.6	24.6	24.6	24.6
	DK	>1000	44.0	53.2	53.8	53.8	53.8	53.8	53.8	53.8
		>600	53.1	64.5	65.1	65.1	65.1	65.1	65.1	65.1
	OK	>300	54.3	65.7	66.4	66.4	66.4	66.4	66.4	66.4
		>150	54.8	66.3	66.9	66.9	66.9	66.9	66.9	66.9
	DR	> 0	54.9	66.7	67.4	67.4	67.4	67.4	67.4	67.4
		TOTAL	495	601	607	607	607	607	607	607

TUTAL NUMBER OF OBSI 901 PCT FREQ NH <5/81 32.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 UBSCD DBS 10.8 6.4 6.6 4.0 5.4 3.5 8.1 11.7 43.2 .3 977

PERIOD: (PRIMARY) 1909-1977 (OVER-ALL) 1871-1977

TABLE 8

AREA 0030 ANTOFAGASTA 22.15 71.5W

	P	FRCENT	FREO	OF WIN	D DIRE	CTION TH VAR	VS DECL	RRENC	E OR N	IBILI	CURRENC TY	E OF
	N	NE	F	SE	s	SW		NH	VAR	CALM	PCT	TOTAL
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0			
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT &	.0	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
			.0	. 1	.0	.0			.0		.2	
TOT \$.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
		.0		.1	. 1	.0	.0		.0		.2	
TOT %	.0	.0	.0	.1	. 1	.1	.0	.0	.0	.0	.3	
PCP	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	
		.7	.2	2.8	8.1	2.0	. 4	. 2	.0		16.8	
TOT \$	1.0	.8	, 2	2.9	8.1	2.0	.4	. 2	.0	1.5	17.0	
PCP	.0		• 1	.1	.2		.0	.0	.0			
					49.2		.9		.0		82.1	
TOT &	.5	.7	1.3	15.5	49.4	8.7	.9	. 5	.0	5.0	82.5	
TOT HBS												1150
TOT PCT	1.5	1.5	1.5	18.6	57.5	10.8	1,3	. 8	.0	6.4	100.0	
	NO PCP TOT % PCP NO PCP TOT %	PCP .0 NO PCP .0 TOT % .0 PCP .0 NO PCP .0 NO PCP .0 NO PCP .0 NO PCP .0 TOT % .0 PCP .0 NO PCP .0 TOT % .0 PCP .0 NO PCP .0 NO PCP .0 TOT % .0 PCP .0 NO PCP .0 TOT % .0	PCP .0 .0 .0 TOT % .0 .0 PCP .0 .0 .0 TOT % .0 .0 PCP .0 .0 .0 TOT % .0 .0 PCP .0 .1 TOT % .0 .0 PCP .0 .0 .0 PCP .9 .7 TOT % .0 .8 PCP .9 .7 TOT % .0 .8	PRECENT NO NE F PCP	PRECIPITAT N NE E SE PCP	PRECIPITATION WINTER SE SE S S S S S S S S S S S S S S S S	PRECIPITATION WITH VAR' N NE E SE S SW PCP	PRECIPITATION WITH VARYING VAR	PRECIPITATION WITH VARYING VALUES TO NO PCCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PRECIPITATION WITH VARYING VALUES OF VIS N NE F SE S SM M NH VAR PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 TOT % .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .1 .0 .1 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .1 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .1 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .1 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .1 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .1 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .1 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .1 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .1 .1 .1 .1 .0 .0 .0 .0 PCP .0 .0 .0 .0 .1 .1 .1 .1 .0 .0 .0 .0 PCP .0 .0 .0 .0 .1 .1 .1 .1 .0 .0 .0 .0 PCP .0 .1 .1 .1 .2 .2 .8 8.1 2.0 .4 .2 .0 PCP .0 .8 .2 2.9 8.1 2.0 .4 .2 .0 PCP .0 .1 .1 .0 .1 .2 .8 .7 .9 .5 .0 TOT 7BS	PRECIPITATION WITH VARYING VALUES OF VISIBILI N NE F SE S SW W NW VAR CALM PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 NO PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .1 .0 .1 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .1 .0 .1 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .0 .1 .1 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .1 .1 .1 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .1 .1 .1 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .1 .1 .1 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .0 .1 .1 .1 .0 .0 .0 .0 .0 .0 PCP .0 .0 .0 .1 .1 .1 .0 .0 .0 .0 .0 .0 .0 PCP .0 .1 .1 .0 .1 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .1 .1 .0 .1 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .1 .1 .0 .1 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .1 .1 .0 .1 .0 .0 .0 .0 .0 .0 .0 .0 PCP .0 .1 .1 .0 .1 .0 .0 .0 .0 .0 .0 .0 .0 PCP .9 .7 .2 2.8 8.1 2.0 .4 .2 .0 .1.5 PCP .0 .0 .1 .1 .1 .2 .0 .0 .0 .0 .0 .0 .0 TOT % 1.0 .8 .2 2.9 8.1 2.0 .4 .2 .0 .1.5	PCP .0 .

VSBY (NM)	SPU	N	NE	E	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
t del	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	003
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.1	.0	.1	.0	.0	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	• 0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	• 1	•0	• 1	• 0	.0	.0	.0	.0	.0	•1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	•0	• 1	.2	. 2	.1	.1		.0		.7	
	11-21	.1	•0	.0	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	•0	.0	•0	.0	.0	.0	.0	.0		.0	
	TOT \$	-1	•0	•1	•2	.2	.1	.1	•	.0	.0	.8	
	0-3	.5	.0		.4	.9	.4	•	.0	.0	1.5	3.8	
5<10	4-10	.4	.6	• 1	1.3	4.3	1.2	.3	. 2	.0		8.4	
	11-21	. 1	•0	.0	.9	1.9	.2	.0	.0	.0		3.1	
	22+	.0	•0	.0	.0	.1	.0	.0	.0	.0		•1	
	TOT \$	1.0	•6	•5	2.6	7.2	1.8	.3	.2	.0	1.5	15.3	
	0-3	.5	.3	.3	1.5	4.6	1.5	.2	.1	.0	6.4		
10+	4-10	.4	.3	.9	8.6	32.2	6.1	.5	.4	.0		49.3	
	11-21	.0		• 2	4.8	12.0	1.8	.0	.0	.0		18.9	
	22+	.0	•0	.0	.1	.1	.0	.7	.0	:0		• 2	
	TOT \$.9	.5	1.4	14.9	49.0	9.5	.7	.5	.0	6.4	83.7	
	OT OBS												1489
7	TOG TO	1.9	1.2	1.6	17.7	54.4	11.4	1.1	- 7	-0	7.0	100.0	

PERIOD:	(PRIMARY)	1909-1977

AREA 0030 ANTOFAGASTA 22.15 71.5W

PERCENT	FREQUENCY	OF CEIL	NG HEIGHTS	I FEET, NH	>4/8)	AND
---------	-----------	---------	------------	------------	-------	-----

(GHT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL
60300	.5	.9	• 5	8.1	28.0	15.2	8.5	.9	.5	.0	63.0	37.0	211
90380		•0	2.3	9.1	29.7	13.3	4.6	1.1	.0	2.7	63.5	36.5	263
12615	•0	. 8	.4	15.6	31.7	18.9	3.3	2.5	.4	. 8	74.5	25.5	243
18821	.5	.5	1.4	10.6	23.5	14.7	5.5	1.4	.5	.5	59.0	41.0	217
PCT	.:	.5	1.2	10.9	265	145	5.4	1.5	.3	10	609	325	934

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(NM)	BY HOUR		CUMULAT	CEILIN	FREQ	OF RAM	IGES OF	VSBY (NM)	AND/DR
(GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD		<1000 <5	1000+ AND5+	NH <5/8	TOTAL
00603	.0	.0	.0	.6	15.7	83.7	344	60800	,5	2.0	10.8	54.4	34.8	204
06609	.0	.0	.2	.6	18.5	80.7	497	06809	. 8	3.2	13.5	52.8	33.7	252
12615	.0	.4	.6	.9	13,3	85.2	331	12615	.0	1.3	18.2	58,5	23.3	236
18621	.0	.0	.0	1.2	14,3	84.5	342	18821	,5	2.4		46.4	38.3	209
PCT	.0	.0	.2	12	239	1260	1514	TOT	.4	20	131	479	291	901

TABLE 13

					ABLE 1										TABL	E 14				
			EQUENC						TOTAL	PCT		PERC	ENT F	REQUEN	Y OF W	IND DI	RECTION	4 BY T	E MP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	085	FREQ	N	NE	E	SE	S	SW		NW	VAR	CALM
75/79	.0	.0		.2	.2	.0	.1	.0	15	1.5	.0	.0	.0	.0	.4	.0	•1		.0	.0
70/74	.0	.0		1.7	11.6	19.3	1.3	2.7	137	13.7	.2	.2	.1	4.3	6.9	1.2	•1	.2	.0	.2
55/59	.0	.0		.0	3.5	13.7	11.6	3.8	330	32.9	.7	.6	1.0	5.2	19.0	3,2	.8	.2	.0	3.2
PCT	,0	.0		3.3	219	387	290	73		100.0	3.0	.2	.0	•1	1.0	.0	•1	.0	.0	.0
											2.0	1.9	2.1	19.6	56.0	9.3	1.6	. 8	-0	6.7

TARLE 15

														LABEE	10			
	MEANS,	EXTREM	ES AND	PERCE	NTILES	OF TE	MP (DE	G F) B	Y HOUR		PERC	ENT FRE	QUENCY	OF RELA	TIVE H	YTIGIMU	84 HOUR	
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL	HOUR (GMT)	0-29	30-59	60-69	70-79		90-100		TOTAL
00603 06609 12615 18621	76 76 80 85	73 71 75 80	71 69 71 76	66 64 65	61 60 60	59 58 58	57 54 54 56	66.0 64.5 65.6 68.9	754 1494 660 1402	00803 06809 12815 18821	.0	2.1 1.6 2.4	16.8 14.1 20.2	39.1 37.0 41.9	36.1 34.7 28.9	5.9 12.5 6.7	77 79 76	238 311 253
TOT	85	77	73	66	61	58	54	66.4	4310	TOT	0	7.5	37.6 220	36.3	301	78	71	1028

APRIL

PERIOD: (PRIMARY) 1909-1977 (DVER-ALL) 1871-1977

TABLE 17

AREA 0030 ANTOFAGASTA 22.15 71.5W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	57	61	65	69	73 76	77	81 84	TOT	FOG	FOG
IMP DIP	90	04	00	12	, 0	•0	04		- 50	-50
11/13	.0	.0	.0	. 1	. 1	:0	.1	3	.0	.3
9/10	.0	.0	.0	.0	. 2	.0	.0	2	.0	.2
7/8	.0	.0	.2	. 1	. 1	. 4	. 1	2 9	.0	.9
6	.0	.0	.0	.1	.1	. 2	.0	11	.0	1.1
5	-0	.0	.4	. 3	.0	.0	.0	7	.0	. 7
4	.0	.6	. 8	. 8	.4	.0	.0	26	.0	2.5
3	-0	. 4	1.6	.8 .7 1.7	.1	. 3	.0	32	.0	1.1 .7 2.5 3.1
2	.0	1.1	1.5	1.7	. 6	. 1	.0	52	.0	5.0
ī	.3	1.8	2.2	1.2	. 3	.1	.0	62	.0	6.0
o	.4	3.8	5.0	2.9	.1	.0	.0	132	.0	12.7
0 -1 -2 -3	.4	3.6	6.0	2.9	.5	.0	.0	139	.0	12.7
-2		3.6	7.4	4.0	. 6	.0	.0	168	.0	16.2
-3	.6	4.1	6.1	2.4	.1	.0	.0	135	.0	16.2
	. 3	3.8	4.3	1.3	.0	.0	.0	102	.0	9.8
-5	.3	3.5	3.1	1.2	.0	.0	.0	83	.0	8.0
-6	.3	2,2	1.3	.1	. 0	.0	.0	41	.0	3.9
-7/-8	.,	1.0	1 0		. 0	.0	.0	23	.0	2.2
-9/-10	.1	.3	1.0	.2	. 0	.0	.0	8	.0	. 8
-11/-13	.0	.2	.2	.0	. 0	.0	.0		.0	• 4
TOTAL			434	••	41		.2	-	.0	1039
TUTAL	32	210	434	207	**	13		1039	•	1037
20-		310	41.8	19.9	3.9	1.3	•	100.0		100 0
PCT	3.1	29.8	71.0	14.4	3.7	100	.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT) 34-47 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 22 23-25 26-32 41-48 49-60 71-88 87-4 TOT PCT 1-3 1-3 4-10 34-47 HGT <1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 20-22 23-25 26-32 24-48 49-60 61-70 71-86 87+ TOT PCT 1-3 22-33 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 48+ 1-3 4-10 34-47 34-47

									APRIL			1.					
PERIODI	COVE	R-ALL)	1963-1	977										AREA		ANTOFAG	
								TABLE	18 (CL	NTI					22.	15 71	.5W
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DI	RECTI	ON	VERSUS	SEA HEIG	HTS (FT)			
				5									SW				
HGT <1	1-3	4-10	11-21	22-33	34-47	48+	PCT 5.4		1-	0	-10		22-33	34-47	48+	PCT	
1-2	1.0	21.3	9.7	.0	.0	.0	32.0				3.5			:0	.0	4.8	
3-4	.0	8.0	7.4	.0	.0	.0	15.3				1.1			.0	.0	2.3	
5-6	.0	1.3	4.4	.5	.0	.0	6,2			ŏ	.3			.0	.0	.5	
7	.0	.0	1.0	.0	.0	.0	1.0			ō	.2			.0	.0	.2	
8-9	.0	.0	1.3	.0	.0	.0	1,3			ō	.0			.0	.0	.0	
10-11	.0	.0	.2	.0	.0	.0	.2			0	.0			.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			ō	.0			0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			o	.0			:0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			0	.0			. 0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			0	.0			0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			0	.0	.0		.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			0	.0	.0		0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			0	.0	.0		.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			0	.0	.0	.0	. 0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			0	.0			0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
TOT PCT	1.9	34.5	24.4	.5	.0	.0	61.3			0	5.5	2.7	.0	.0	.0	8.2	
				W									NW				TOTAL
HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT		1-	3 4	-10	11-21		34-47	48+	PCT	PCT
<1	.0	.4	.0	.0	.0	.0	.4			0	.1	.0	.0	.0	.0	.1	-
1-2	.0	. 2	.0	.0	.0	.0	.2			0	.1	.0		.0	.0	.1	
3-4	.0	.0	.0	.0	.0	.0	.0			0	.0	.0		:0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			0	.0			0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			0	.0			0000	.0	.0	
49-60 61-70	.0	.0	.0	.0	.0	.0	.0			0	.0	.0		.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			0				.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	:0			0	.0			:0	.0	.0	
TOT PCT		.7	.0	.0	.0	.0	:7			0				.0	.0	.0	95.1
IUI PLI	.0		.0	.0	.0	.0				U	. 1	.0	.0	.0	. 0	. 1	7301

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	7.9	6.5	.5	.0	.0	.0	14.9	003
1-2	1.4	32.9	12.9	.0	.0	.0	47.2	
3-4	.0	11.8	13.2	.0	.0	.0	24.9	
5-6	.0	1.9	6.0	.7	.0	.0	8.6	
7	.0	.2	2.2	.0	.0	.0	2.4	
8-9	.0	.0	1.7	.0	.0	.0	1.7	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0		.0	.0	.0	
	.0	• 0	.0	.0	.0	.0	••	
71-86		.0	.0	.0	.0		.0	
67+	.0	.0	.0	.0	.0	.0	.0	417
000					.0	•		417
TOT PCT	9.4	53.2	36.7	.7	.0	.0	100.0	

PERI	10: (0)	ER-ALL	1 195	0-1977	,				TABLE	19											
					PERCENT	FRE	QUENCY C	F WA	VE HEI	GHT (F	T) VS	WAVE P	ERIOD	SECON	0\$)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	3.3	9.1	10.6	8.4	1.7	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	260	3
6-7	.0	.9	8.0	8.8	2.9	2.1		.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	180	5
8-9	.0	.4	2.6	6.9	6.5	1.5	.4	.0	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	146	6
10-11	.0	1.2	. 9	2.1	2.2	1.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	6
12-13	.0	.0	.5	.5	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
>13	.0	.0	.0	.8	.7	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
INDET	4.1	1.7	1.7	1.1	1.1	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	3
TOTAL	56	101	185	217	114	53	16	7	. 8	1	0	0	0	0	0	0	0	0	0	758	5
PCT	7.4	13.3	24.4	28.6	15.0	7.0	2.1	. 9	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AREA 0030 ANTOFAGASTA 22.15 71.3W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DU BLWG SNI	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	95.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.1	.0	99.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.0	.0	.7	.0	98.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.5	.0	97.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	1.2	•0	4.7	.0	91.9
TOT PCT	945	.0	.3	.0	.0	.0	.0	.3	. 2	.4	.1	•0	1.0	.0	98.0

TABLE 2

P	ERCENT	FREQUENCY	OF	WEATHER	DCCURRENCE	BY	HOUR
---	--------	-----------	----	---------	------------	----	------

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	ND SIG WEA
00603 06609 12615 18621	.0	.0	1.1 .0 .0	.0	.0	.0	.0	1.1	.0	1.5	.0	•0	1.3	.0	97.8 97.0 97.9 99.6
TOT PCT	971	.0	.3	.0	.0	.0	.0	.3	.2	.4	.1	•0	.9	.0	98.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3	WI 4-10	11-21	22-33	075) 34-47	48+	TOTAL	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21	
							003											
N	1.6	1.9	.2	.0	.0	.0		3.7	4.8	2,4	.0	3.6	5.1	4.3	3.3	3.6	3.9	
NE	1.3	1.9	.1	.0	.0	.0		3.3	4.7	2,2	11.1	2.0	4.8	5.4	10.0	3.0	2.5	
E	1.7	1.8	. 2			.0		3.7	4.7	2,1	.0	2.8	6.8	4.8	.0	3.9	1.5	
SE	3.4	11.4	4.8	.3	.0	.0		20.0	8.1	17.4	5.6	19.0	18.9	23.6	25.0	21.8	16.6	
S	8.5	26.1	9.4	.6	.0	.0		44.6	7.9	50.7	58.3	45.0	38,3	41.3	45.0	44.7	47.0	
SW	2.3	6.3	. 8			.0		9.4	6.0	11.7	25.0	8.8	6.0	5.1	10.0	11.5	11.5	
W	. 8	.6	.1	.0		.0		1.5	4.0	1.0	.0	2.1	1.5	.9	.0	1.3	2.5	
NW	1.2	1.5	.1	.0	.0	. 0		2.7	4.8	1,8	.0	3.0	3,3	2.2	.0	2.9	3.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	. 5	
CALM	11.2							11.2	.0	10.7	.0				6.7	7.5	10.5	
TOT OBS	1416	2292	695	44	0	0	4447		6.4	719	9	834	594	657	15	1242		
TOT PCT	31.8	51.5	15.6	1.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WND DIR	0-6	₩IND 7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	HDUR 06 09	12 15	18
N	3.0	.6	.1	.0	.0		3.7	4.8	2.4	4.2	4.3	3.6
NE	2.6	:6	.0	.0	.0		3.3	4.7	2.3	3.2	5.5	2.9
E	3.0	.6	.1	.0	.0		3.7	4.7	2.1	4.5	4.7	3.3
	9.7	8.6	1.6	•1	.0		20.0	8.1	17.2	19.0	23.6	20.6
SE	21.9	19.2	3.4	.1	.0		44.6	7.9	50.8	42.2	41.4	45.2
SW	6.3	2.8	.2	.0	.0		9.4	6.0	11.9	7.7	5.2	11.5
₩	1.3	.2	.0	.0	.0		1.5	4.0	1.0	1.9	.9	1.6
NW	2.1	.7	.0	.0	.0		2.7	4.8	1.8	3.1	2.1	3.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.2						11.2	.0	10.6	14.3	12.4	8.2
TOT OBS	2718	1482	238	9	0	4447		6.4	728	1428	672	1619
TOT PCT	61.1	33.3	5.4	.2	.0		100.0		100.0	100.0		100.0

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1870-1977

TABLE 4

AREA OODO ANTOFAGASTA W. 11.38

0 0

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				WIND	SPEED (KNOT5)			PCT	TOTAL
HUUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREG	085
00403	10.6	16.6	53.2	18.8	. 8	.0	.0	7.0	100.0	728
06609	14.3	21.7	50.1	13.1	. 8	.0	.0		100.0	1428
12615	12.4	19.5	51.3	15.9	, 9	.0	.0		100.0	672
18821	8.2	22.1	52.1	16.3	1.3	.0	.0		100.0	1619
TOT	497	919	2292	695	44	0	0	6.4		4447
PCT	11.2	20.7	51.5	15.6	1.0	.0	.0	• • •	100 0	4441

TABLE 5

												17	ABLE C					
•	CT FRE	Q DF	TOTAL	CLOUD A	TION	(EIGHTHS) MEAN			PERCEN	TAGE I	CURRE	NCY OF	CEILIN	G HEIG	HTS (T, NH	>4/8) IN	
WND DIR	0=2	3-4	5-7	08500	TOTAL	CLOUD	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999		NH <5/8	
N NE	•1	.4	.3	1.2		6.6	.0	.0	.1	.1	.4	.3	. 2	. 3	-1	.0	.5	
WE	.4	.1	•0	1.6		6,3	.0	.0	.1	.2	.6	.3	. 4	.0		.0	.5	
E	• 1	. 4	1.0	1.0		6,3	.0	.0	.0	.2	1.0	.2	- 2	.0				
SE	. 9	1.2	6.1	10.2		6.9	. 2	. 5	. 1	2.6	7.5	2.9			• 1	.0	. 8	
5	5.7	4.0	13.5	29.8		6.5	.1	-					1.1	.0	• 1	.0	3,5	
SW	1.2	. 7	1.7	6.7		6.5		• 2	, 2	10.1	19.0	7.2	2.1	. 8	. 3	.0	12.7	
	.4		100000				.0	. 2	.0	1.6	4.0	1.4	.7	.0	.0	.1	2.4	
NW		. 3	• 1	• .		5.1	.0	.0	.0	. 1	.2	.0	.4	.0	.0	.0	. 9	
	.3	. 2	• 2	. 9		5.8	.0	.0	.1		.2	.4	. 3	.0	.0	.0		
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		• •	
CALM	1.7	. 5	1 - 1	4.9		5,9	.0	.1	.0	. 8	2.5	1.5				.0	.0	
TOT OBS	83	59	181	430	753	6,5		10		118	267		. 7	• 1	.0	.0	2.5	
TOT PCT	11.0	7.8	24.0	57.1	100.0				-			106	46	. 9	5	1	184	753
					100.0		. 3	1.3	• '	15.7	35.5	14.1	6.1	1.2	.7	.1	24.4	100.0

	TABLE 7
CUMULATIVE PCT FREQ DF CEILING MEIGHT	OF SIMULTANEQUE OCCURRENCE (NH >4/8) AND VSBY (NM)

	_				VSBY (NM	3			
C	EILING	• UR	■ DR	· DR	· OR	. DR	· OR	- OR	. OR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
	>6500	.6	.6	.6	.6	.6	.6	.6	.6
	>5000	1.7	1.9	1.9	1,9	1.9	1.9	1.9	1,9
nR	>3500	7.3	8.0	8.0	8.0	8.0	8.0	8.0	8.0
OR	>2000	20.9	22.4	22.4	22.4	22.4	22.4	22.4	22.4
DR	>1000	50.6	58.0	58.1	58.1	58.1	58.1	58.1	58.1
CK	>600	63.7	73.3	73.5	73.5	73.5	73.5	73.5	73.5
DR	>300	64.1	73.9	74.2	74.2	74.2	74.2	74.2	
OR	>150	65.4	75.2	75.5	75.5	75.5	75.5	75.5	74.2
DR	> 0	65.6	75.5	75.7	75.7	75.7	75.7	75.7	75.5
	TOTAL	506	582	584	584	584	584	584	75.7

TOTAL NUMBER OF OBS1 771 PCT FREQ NH <5/81 24.3

TABLE 7A

PERCENTAGE FREQ UF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DB3CD DBS 6.5 4.0 3.6 5.0 5.0 4.2 6.3 14.0 51.4 .0 835

PERIODI	(PRIMARY) 1 (OVER-ALL) 1	908-1977 870-1977						TA	BLE 8				ARE	22,1	TOFAGASTA 5 71.3W
			P	RCENT	PREC	OF WIN	D DIRE	CTION TH VAR	ING V	URRENC	E OR N	IN-DCC	URRENC	E DF	
	VSBY (NM)		N	NE	F	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
	<1/2	PCP NO PCP TOT #	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	1/2<1	PCP NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
		TOT %	.0	.0	.0	.0	. 1	•0	.0	.0	.0	.1	.0		
	1<2	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	2<5	PCP NO PCP TOT %	.0	.0	.0	.0	.1 .1	.0	.0	.0	.0	.0 .1	.2		
	5<10	PCP NO PCP TOT %	.8	.5	.5	1.2 1.3	5.9 5.9	2.1 2.1	.0	.0	.0	2.3 2.5	13.5 13.8		
	10+	PCP ND PCP TOT \$	1.8	1.6 1.6	1.7 1.7	17.1 17.1	45.4 45.4	8.8 8.8	1.6 1.6	1.4 1.4	.0	6.4	85.8 85.8		
		TOT OBS												944	

TOT DES TOT PCT 2,5 2.1 2.1 18.4 51.6 10.9 1.6 1.6 .0 9.1 100.0

							HOLL	•					
				PERCEN	T FREQ	OF WI	ND DIR	ECTION S OF V	VS WI	ND SPE	ED		
VSBY	SPD	N	NE	E	SE	s	SW	W	NW	VAR	CALM	pCT	TOTAL
(NM)	KTS												DBS
	0-3	.0	• 0	• 0	• 0	• 0	.0	.0	.0	.0	.0	• 0	
<1/2	4-10	.0	• 0	.0	• 0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	• 0	.0	.0	.0	.0	.0		.0	
	22+	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT *	.0	•0	•0	•0	.0	.0	.0	.0	.0	.0	•0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	•1	
1/2<1	4-10	.0	• 0	.0	• 0	• 1	.0	.0	.0	.0		• 1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	•0	.0	.0	.0	.0	.0	.0	.0	-	.0	
	TOT \$.0	•0	.0	•0	.1	.0	.0	.0	.0	.1	• 2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	• 0	.0	.0	.0	.0	.0	.0	.0		• 0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	•0	•0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
2<5	4-10	.0	• 0	.0	• 1	.1	.1	.0	.0	.0		.2	
	11-21	.0	.0	.0	.0		*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	• 0	.0	• 1	•1	.1	.0	.0	.0	.2	.5	
	0-3	.2	•1	.1	.2	.9	.3	.0	.1	.0	2.1	3.9	
5<10	4-10	.3	.3	.4	.7	3.7	1.7	.0	.2	.0		7.3	
	11-21	. 1	.0	. 1	.2	.6	.2	.0	.0	.0		1.1	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.6	.5	.5	1.2	5.2	2.1	.0	.2	.0	2.1	12.4	
	0-3	.7	.5	.4	1.2	4.1	1.4	.6	.5	.0	7.7	17.1	
10+	4-10	1.0	1.3	.6	8.4	27.8	7.6	. 9	.7	.0		48.2	
	11-21	.1	.1	.4	6.1	13.3	.9	.1		.0		21.2	
	22+	.0	.0	.0	.2	.2	.0	.0	.0	.0		. 5	
	TOT *	1.8	1.9	1.4	16.0	45.5	9.9	1.6	1.3	.0	7.7	87.0	
	nt obs												1261
1	TOT PET	2.3	2.3	1.9	17.3	50.9	12.2	1.6	1.5	.0	10.0	100.0	

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				т,	ABLE 1	3									TABLE	14			
	PERC	ENT FR	EQUENC	Y UF R	ELATIV	HUMI	DITY BY	TEMP				PER	CENT FR	EQUENC	Y OF W	IND DIRE	CTION BY	TEMP	
TEMP F	0-29	30-39	40-49	59-59	60-69	70-79	99-08	90-100	DBS	FREQ	N	NE	E	SE	s	SW	w ,	W VAR	CAL
80/84			.0		.0	.0	.1	.0	1	:17	.0	.0	.0 .0	.0	.1	.0	.0 .	0 .0	
75/79	.0	.0	.0	.1	.0	.4	.2	.0	6	.7	.0		.0	.2	.0	.0		1 .0	
70/74	. (.0		1.8	.7	.5	.4	30	3.6	.0	.4	. 1	.5	2.0			2 .0	
65/69	. (. 8	7.3	14.0	5.9	1.4	246	29.6	.5	. 5	.2	8.0	14.5	2,6	.5 1.		1.
60/64				1.0	10.7	24.8	17.6	4.6	487	58.6	1.7	1.0		9.1	31.0	7.4		7 .0	6.
55/59	.0			.0	.1	2,8	2.8	1,2	57	6.9	.2			.2	3.3	1.1		0 .0	1.
50/54						.0		. 4	- 1	. 5	.0	.0		.0	.5	***		0 .0	
TOTAL	•			18	166		226	66		100.0	.0	. 0	.0	.0			.0	0 .0	
PCT					20.0	42,6	27,2	7.9	891	100.0	2.8	2.6			51.4				
PCI	• •		• 1	2.2	20.0	42,0	61,2				4.0	2,0	1.4	18.1	21.4	11.3	1.3 1.	9 .0	9.
				TAB	E 15										TABLE	16			
,	MEANS, E	XTREME	S AND	PERCEN	TILES	OF TEM	P (DEG	F) BY	HOUR			PERC	ENT FRE	QUENCY	OF REL	ATIVE H	UMIDITY	BY HOUR	1
HOUR GMT)	MAX	99%	95%	50%	5%	1%	MIN I	MEAN 1	DES		HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTA
00603	84	70	68	63	59	56	52 (3.3	729		00603	.0	1.9	16.4	45.9	28.0	7.7	77	207
9030	84	69	66	62	57	55		2.1	1436		90300	.0	1.8	16.4	36.0		11.1	78	225
2615	82	71	67	63	58	55	53 6	2.8	670		12615	.0	1.4	19.3	40.8		8.7	77	218
8621	84	75	72	66	61	58		5.9	1546		18821	.0	3.8	28.2	47.4		3.8	73	209
TOT	84	73	69	64	58	56		3.7	4381		TOT	0	19	176	364		68	76	859
													• *	• 1 •	,,,		•		

			TA	BLE 1	1						TABLE	12		
		PERCENT	FREQUENCY	VSBY	(MM)	BY HOUR		CUMULAT					VSBY (NM)	AND/DR
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
60300	.0	.0	.0	.0	12.2	67.8	288	00803	.6	2.8	18.2	47.7	34.1	176
06609	.0	.2	.0	.7	12.2	86.8	410	06609	.0	1.6	16.1	59.1	24.7	186
12615	.0	.4	.0	.4	14.4	84.9	284	12615	.5	2.9	21.0	63.8	15.2	210
18821	.0	.0	.0	.7	10.8	88.5	305	18821	.0	1.5	15.6	59.8	24.6	199
TOT PCT	.0	.2	.0	.5	159		1287 100.0	101 PCT	,3	2.2	137	447 58.0	187 24.3	771 100.0

HOUR (GMT) 000 150 300 600 1000 2000 3500 5000 6500 8000+ TOTAL NH 45/8 TOTAL (GMT) 149 299 599 999 1999 3499 4999 6499 7999 6000+ TOTAL NH 45/8 TOTAL NH 45

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1870-1977

TABLE 10

AREA 0030 ANTOFAGASTA 22.15 71.3W PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE DECURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

					• • • •					
AIR-SEA	53	57	61	65	69	73	77	TOT	w	wo
THP DIF	56	60	64	68	72	76	80		FDG	FOG
11/13	.0	.0	.0	.1	.0	.0	.0	1	.0	:2
9/10	.0	.0	. 2	.0	.0	.0	.0	2	.0	.2
7/8	.0	.0	.2	.0	. 3	.1	.0	6	.0	.7
6	.0	. 2	.1	.0	. 2	.0	.0	5	.0	.6
5	.0	.0	. 8	.3	. 1	. 3	.1	15	.0	1.7
	.0	. 2	.5	. 8	.6	.0	.0	18	.0	2.1
. 3	.0	. 1	. 7	.6	. 8	. 2	.0		.0	1.7 2.1 2.4
. 2	.0	. 3	2.6	1.6	. 9	. 1	.0	48	.0	2.0
.1	.0	. 3	2.1	1.9	1.0	. 3	.0	49	.0	5.7
10	.0	. 7	5.9	3.8	.3	- 0	.0		.0	10.8
-1	.0	1.3	6.8	5.0	.1	. 0	.1		.0	13.3
-2	.2	1.4	8.6	4.8	.6	.1	.1	136	.0	15.9
-3	.0	2.1	8.5	4.4	. 1	. 3	.0	133	.0	15,5
-4	. 1	1.9	6.4	2.4	.2	.0	.0	95	.0	11.1
-5	.0	1.0	3.8	1.9	.0	.0	.0	58	.0	6.8
-6	.0	. 8	2.0	.5	.0	.0	.0		.0	3,3
-7/-8	. 2	1.0	1.9	.0	.0	.0	.0		.0	3,1
-9/-10	.0	.0	.9	.0	.0	.0	.0		.0	.9
-14/-16	.1	.0		.0	.0	.0	.0		.0	858
TOTAL	6		447		47		3	1.00	0	858
		99		242		14		858		
PCT	.7	11.5	52.1	28.2	5.5	1.6	.3	100.0		100.0
	11/13 9/10 7/8 6 5 4 4 3 2 2 1 1 0 0 -1 -2 -3 -5 -5 -5 -7/-8 -5 -7/-8 -7/-8	TMP DIF 56 11/13 .00 9/10 .00 7/8 .00 5 .00 4 .00 7 .00 10 .00	TMP DIF 56 60 11/13 0 0 0 9/10 0 0 0 7/8 0 0 0 5 0 0 2 5 0 0 2 1 0 0 7 2 0 7 2 1 0 7 2 1 0 7 2 1 0 13 2 1 0 13 2 1 1 0 2 3 1 1 1 9 5 0 0 0 7 -1 0 0 7 -1 0 13 -2 1 1 9 -5 0 10 0 8 -7/-8 2 10 0 0 -14/-10 0 0 -14/-10 1 1 9 99	TMP DIF 56 60 64 11/13 0 0 0 0 9/10 0 0 0 2 7/8 0 0 0 2 11/8 0 0 0 2 12 6 0 0 2 1 2 6 0 0 2 1 1 7 0 0 0 8 1 0 0 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 0 0 3 2 1 1 1 0 0 4 1 1 0 0 4 1 1 0 0 4 1 1 0 0 4 1 1 0 0 9 14/16 1 0 0	TMP DIF 56 60 64 68 11/13 0 0 0 0 0 10 1 9/10 0 0 0 2 1 0 7/8 0 0 2 11 0 0 6 0 2 11 0 4 0 0 2 13 0 6 0 0 2 11 0 6 0 0 2 11 0 6 0 0 2 11 0 6 0 0 2 11 0 6 0 0 2 11 0 7 0 0 2 1 0 7 0 0 2 1 0 7 0 0 2 1 0 7 0 0 2 1 0 7 0 0 2 1 0 7 0 0 2 1 0 7 0 0 2 1 0 7 0 0 2 1 0 7 0 0 0 0 0 0 0 7 0 0 0 0 0 0 7 0 0 0 0	AIR=SEA 53 57 61 65 69 TMP DIF 56 60 64 68 72 11/13 .0 .0 .0 .0 .1 .0 .0 .9 .9 .0 .0 .9 .1 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .2 .0 .0 .3 .1 .0 .2 .5 .8 .0 .0 .2 .5 .8 .0 .0 .2 .5 .8 .0 .0 .2 .5 .8 .0 .0 .2 .5 .8 .0 .0 .2 .5 .8 .0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	AIR=SEA 53 57 61 65 69 73 TMP DIF 56 60 64 68 72 76 11/13 .0 .0 .0 .1 .0 .0 .0 9/10 .0 .0 .2 .0 .0 .0 9/10 .0 .0 .2 .0 .3 .1 6 .0 .2 .1 .0 .3 .1 5 .0 .2 .1 .0 .3 .1 2 .0 .3 .1 .7 .6 .8 .2 2 .0 .3 2.6 1.6 .9 .1 1 .0 .3 2.1 1.9 1.0 .3 1 .0 .1 .7 .6 .8 .2 2 .0 .3 2.6 1.6 .9 .1 1 .0 .3 2.1 1.9 1.0 .3 10 .0 .7 5.9 3.8 .3 .0 -1 .0 1.3 5.8 5.0 .1 .0 -2 .2 .2 1.4 8.6 4.8 .0 .1 -3 .0 2.1 8.5 4.4 .1 .3 -4 .1 1.9 6.4 2.4 .2 .0 -5 .0 1.0 3.8 1.9 .0 .0 -7/-8 .2 1.0 1.9 .0 .0 .0 -7/-8 .2 1.0 1.9 .0 .0 .0 -14/-16 .1 .0 .3 2.0 .5 .0 .0 -14/-16 .1 .0 .0 .9 .0 .0 .0 -14/-16 .1 .0 .0 .9 .0 .0 .0 -14/-16 .1 .0 .0 .0 .0 .0 .0 -14/-16 .1 .0 .0 .0 .0 .0 .0 -14/-16 .1 .0 .0 .0 .0 .0 .0 -14/-16 .1 .0 .0 .0 .0 .0 .0 -14/-16 .1 .0 .0 .0 .0 .0 .0 .0	AIR=SEA 53 57 61 65 69 73 77 THP OIF 56 60 64 68 72 76 80 11/13 .0 .0 .0 .0 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	AIR=SEA 53 57 61 65 69 73 77 TOT THP OIF 56 60 64 68 72 76 80 11/13 .0 .0 .0 .0 .1 .0 .0 .0 .0 .1 .9 .10 .0 .0 .0 .0 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	AIR=SEA 53 57 61 65 69 73 77 TOT M FDG 11/13 .0 .0 .0 .1 .0 .0 .0 .0 .1 .0 .0 .0 .0 .1 .0 .0 .0 .0 .2 .0 .0 .0 .2 .0 .0 .0 .0 .2 .0 .0 .0 .0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

				PC	T FREQ C	F WIND	SPEED	(KTS)	AND	DIREC	TION V	ERSUS S	EA HEIG	HTS (FT		
HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PCT			1-3	4-10	11-21	NE 22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0				, 2	.6	.0	.0	.0	.0	.8
1-2	.2	.2	.0	.0	.0	.0	550000000000000000000000000000000000000			. 3	.5	.0	.0	.0	.0	. 8
3-4	.0	. 0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	. 0
7	.0		.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
8-9	.0	0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
10-11	.0	:0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	- 0	.0
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	. 0	:0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	. 0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	. 0			.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	. 0			.0	.0	.0	.0	• 0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0			.0	. 0	.0	.0	• 0	.0	.0
TOT PCT	.7	.0	.0	.ŏ	·ŏ	.0	1.0			.5	1.1	.0	.0	000000000000000000000000000000000000000	.0	1.6
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	484	PCT
<1	.0	.7	.0	.0	.0	.0	.7			.7	.9	. 1	.0	.0	.0	1.7
1-2	.0	1.1	.0	.0	.0	.0	1.1			.7	4.0	1.7	.0	:0	-0	6.4
3-4	.0	.0	.6	.0	.0	.0	. 6			.0	3.0	2.2	.0	.0	.0	5.2
5-6	.0	.0	.2	.0	.0	.0	.2			.0	.1	2.0	1.0	.0	.0	3,1
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	000000			.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	- 0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	. 9	.0	.0	.0	2.8			1.5	7.9	6.6	1.0	000000000000000000	.0	16.9

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PERIOD	(0)	P-41 . 1	1963-1	1077					MAY					AREA	0030	ANTOFAG	A C T A
PERIOU	, TOVE	K-ALL!	1703-					TABLE	18 (00	ITHE				44-4	22,		.3W
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND D	RECT	ION	VERSUS	SEA HEIG	HTS (FT)			
HGT	1-3	4-10	11-21	5 27-33	34-47	48+	PCT		١.	.3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.6	4.4	.2	.0	.0	.0	5.3			. 3	2.3		.0	.0	.0	2.7	
1-2	.9	23.9	4.4		.0	.0	29.3			. 6	6.1		.0	.0	.0	7.4	
3-4	.0	7.4	6.6	.0	.0	.0	13.9			.0	1.0		.0		.0	1.0	
5-6	.0	1.8	2.6	.0	.0	.0	4.4			. 0	1.4	.6	.0	.0	.0	2.0	
7	.0	.0	.7	.0	.0	.0	.7			.0	.0		.0	. 0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	. 0			.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
71-86	.0	.0	• 0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0			.0	.0	.0	.0	
TOT PCT	1.5	37.5	14.6	.0	.0	.0	53,6		1.	.0	10.8	1.3	.0	.0	.0	13.1	
				w									NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1.	-3	4-10		22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0			. 0	.0	.0	.0	.0	.0	.0	
1-2	, 3	.6	.0	.0	.0	.0	. 9			. 4	.4		.0	.0	.0	. 8	
3-4	.0	.0	.0	.0	.0	.0	.0			.0	. 3			.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			• 0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			• 0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			,0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0				.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			•0	.0	.0		.0	.0	.0	
87+	.0	.0	.0	•0	.0	.0	.0			.0	.0			0	.0	0	
TOT PCT	. 3	. 6	.0	.0	.0	.0	. 9		1	. 4	.7	.0	.0	.0	.0	1.1	90.

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)			
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT	
<1	12.4	8.9	.3	.0	.0	.0	21.7	003	
1-2	3.8	36.3	6.7	.0	.0	.0	46.8		
3-4	.0	11.5	9.2	.0	.0	.0	20.7		
5-6	.0	3,2	5.4	1.0	.0	.0	9.6		
7	.0	.0	1.3	.0	.0	.0	1.3		
8-9	.0	. 0	.0	.0	.0	.0	.0		
10-11	.0	. 0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.00	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		
0,0			• •	•0		••		314	
TOT PET	16.2	59.9	22.9	1.0	.0	.0	100.0	314	

PERIO	D: (0V	ER-ALL	194	9-197	,				TABLE	19											
					PERCENT	FRE	QUENCY	DF WA	VE HE10	SHT (F	r) VS	WAVE P	ERIOD	SECON	(8)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	3.5	6.5	6.5	6.5	1.1	1.1	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	161	3
6-7	.2	1.9	9.3	10.2		1.1	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	5
8-9	.0	.6	2.7	6.1	3.2	2.4	.6	.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	6
10-11	.0	.5	. 8	2.1		. 6	1.0	.6		.0	.0		.0	.0	.0	.0	.0	.0	.0	59	7
12-13	.0	.0	.2	1.9		.5	. 2	.3	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	33	7
>13	.0	.0	.0	. 5	.2	. 2	.2	.3	.0	.0	.0		.0	.0	.0	.0		.0	.0	8	8
INDET	4.6	2.1	2.9	3.5			.0	.0		.0	.0		.0	.0	.0	.0		.0	.0	87	3
TOTAL	52	73	140	193	95	37	18	12		• 1		. 0		. 0	0	0		0	0	627	5
PCT	8.3	11.6	22.3	30.8	15.2	5.9	2.9	1.9	1.0	, ž	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AREA OC30 ANTOFAGASTA 22,25 71.5W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	TYPE					DTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THOR	FOG WD PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
N	.0	.0	3.1	.0	.0	.0	.0	3.1	.0	.0	3.1	.0	.0	.0	93.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.0	.0	.0	96.5
E	2.8	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	97.2
SE	. 1	.7	1.1	.0	.0	.0	.0	1.9	.7	.5	. 1	.0	.0	.0	96.7
5	.0	. 3	.3	.0	.0	.0	.0	.6	,5	.0	. 1	.0	.4	.2	98.2
Sw	1.0	. 3	.0	.0	.0	.0	.0	1.3	.0	.0	.3	.0	3.6	.0	94.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	.0	.0	.0	93.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	5.4	.0	.0	.0	5.4	.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.2	.0	.0	.0	.0	1.2	1.2	.0	2.4	.0	3.6	.0	91.6
TOT PCT TOT OBS:	1074	.3	.6	.0	.0	.0	.0	1.0	.6	.1	.7	.0	. 9	.1	96.6

TABLE 2

DEDCENT	EDEDLIENCY	DE	WEATHED	OCCUPPENCE.	D V	HITTID

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	SIG WEA
00£03 06£09 12£15 18£21	.0 .0 .7	.6	.8 .9 .4	.0	.0	.0	.0	1.2 1.5 1.1	1.6	.0	.8 1.2 .7 1.2	.0	.0 .9 1.5 1.2	.0	96.5 96.1 96.0 97.3
TOT PCT	.2	. 3	.5	.0	.0	.0	.0	1.0	.5	.1	1.0	.0	.9	• 1	96.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	NO SPE	ED (KN	DTS)									(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	1.8	2.6	.4		•0	.0		4.8	5.4	3.7	.0	4.7	8.4	5.1		3.7	4.7
NE	1.2	1.6		.0		.0		3.0	4.9	2.2	.0		3.1	4.2	10.0	2.8	2.5
E SE	1.2	1.5	2			.0		2.9	5.1		.0	2.4			5.0	3.0	2.1
20	3.2	10.0				.0		18.9	8.8	16.7	6.7	16.4	18.4	21.0	6.3	22.1	16.4
S	8.1	24.6	12.0	1.0		.0		45.7	8.5	50.2	78.3	44.8	39.9	43.9	65.0	46.3	47.8
SW	2.5	5.3	1.5	.1		.0		9.4	6.9	11.5	15.0	9.5	7.0	7.1	8.8	9.4	12.9
W	. 8	1.2	.1	.0	.0	.0		2.0	4.5	2.2	.0	2.2	1.5	1.3	.0	2.5	2.3
NW	1.2	1.6	. 3		.0	. 0		3.0	5.4	3.4	.0		2.7	2.0	.0	2.5	5.7
VAR	.0	.0	.0	.0		. 0		.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0
CALM	10.2	• 55		•	•			10.2	.0	9.0		14.1	13.8	10.5	5.0	7.8	5.5
TOT OBS	1390	2235	912	77	1	0	4615		7.0	752	15	875	630	677	20	1263	383
TOT PCT	30.1	48.4	19.8			.0		100.0		100.0		100.0					100.0

TABLE 34

		WIND	SPEED	(KNOTS)						HOUR	C (GMT)
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL	PCT	MEAN	00	06	12	18
						085	FREQ	SPD	03	09	15	21
N	3.5	1.2	.1	.0	.0		4.8	5.4	3.7	6.2	4.9	3.9
NE	2.3	.6		.0	.0		3.0	4.9	1.0	3.6	4.4	2.7
•	2.2	.7		.0	.0		2.9	5.1	2.1	2.7	4.8	2.8
E SE	8.1	8.6	2.1	.1	.0		18.9	8.8	16.5	17.3	20.6	20.8
5	20.9	20.1	4,5	. 2	.0		45.7	8.5	50.7	42.7	44.5	
SW	5.5	3.3	. 5		.0		9.4	6.9	11.7	8.4	7.1	10.2
W	1.8	.2		.0	.0		2.0	4.5	2.1		1.3	2.4
NW	2.3	.6	.1	.0	.0		3.0	5.4	3.3	3.2	2.0	3.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.2						10.2	.0	8.9	14.0	10.5	7.2
TOT DBS	2629	1635	338	13	0	4615		7.0	767	1505	697	1646
TOT PCT	57.0	35.4	7.3	. 3	.0		100.0			100.0		

11	N	

								JUNE						
PERIOD:	(PRIMARY) (DVER-ALL)	1908-197 1855-197						TABLE	4			AREA	0030 A	AGASTA
				PER	CENTAGE	FREQUE	ENCY OF	WIND S	PEED BY	HOUR	(GMT)			
		HOUR	CALM	1-3	4-10		SPEED 22-33			MEAN	PCT	TOTAL		
		00603 06609 12615 18621 TUT PCT	8.9 14.0 10.5 7.2 470 10.2	16.4 21.5 19.1 20.5 920 19.9	49.2 45.6 50.1 50.0 2235 48.4	23.3 17.7 18.9 20.3 912 19.8	2.2 1.2 1.4 1.9 77	.0 .0 .0	.0	6.3	100.0 100.0 100.0 100.0	767 1505 697 1646 4615		

			T,	ABLE 5								TA	BLE 6					
P	CT FRE		DTAL Y WIN	CLOUD A	TION	(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN	G HEIG	HTS (T,NH	>4/8) JN	
WND DIR	0=2	3-4	5-7	8 & 6	TOTAL	CLOUD COVER	000	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL DBS
N NE	:1	•1	•1	2.2		7.4	.0	.0	.0	:4	1.6	•1	.0	.0	•0	.0	.3	
E SE	1.3	2.1	6.5	7.4		6.3	.0	.1	.0	2.1	6.1	3.6	.7	.0	.1	.0	1.0	
S w	1.8	1.1	15.6	3.8		5,5	.1	•1	. 2	1.2	17.9	10.5	3.3	.1	.0	.5	3.3	
NW W	.1	.4	•2	1.2		7.2	.0	.0	:0	.4	.7	.5	.0	.0	.0	.0	.7	
CALM	.9	1.1	1.4	5.2		6.4	.0	.0	.0	1.0	2.6	2.4	.0	.0	.0	.0	2.1	
TOT OBS	13.3	78 9.7	217	405 50.2	100.0	6,1	.2	.2	.5	101	271 33.6	19.0	4.8	.5	.4	.5	27.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBV (NM)

						VSBY (NM	1)			
	C	EILING	· DR	• DR	- DR	• OR	· OR	 OR 	• OR	- DR
	(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
	nR	>6500	.7	.7	.8	.8	. 8	.8	.8	.8
	OR	>5000	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3
	nR	>3500	5.4	5.8	5.9	5.9	5.9	5.9	5.9	5.9
	OR	>2000	22.7	24.8	25.0	25.0	25.0	25.0	25.0	25.0
	nR	>1000	53.3	58.9	59.0	59.0	59.0	59.0	59.0	59.0
	OR	>600	64.1	71.2	71.7	71.7	71.7	71.7	71.7	71.7
	nR	>300	64.7	71.8	72.3	72.3	72.3	72.3	72.3	72.3
	OR	>150	64.8	72.0	72.5	72.5	72.5	72.5	72.5	72.5
•	OR	> 0	64.8	72.0	72.5	72.6	72.7	72.7	72.7	72.7
		TOTAL	537	597	601	602	603	603	603	603
	TO	TAL NUMB	ER OF OB	51 82	9	P	CT FREQ	NH <5/81	27.3	

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 08SC0 QBS 5,7 3.8 5,4 8,0 4,9 5,0 9,3 11.8 45,9 ,2 901

									JONE							
PERIODI (PRIMARY (DVER-AL	1 1	908-1977 855-1977						TAI	SLE 8				ARE	A 0030	ANTO	FAGASTA 71.5W
			P	ERCENT	PREC	OF WIN	D DIRE	CTION TH VAR	Y DCC	URRENCE ALUES	F VIS	IBILIT	URRENC	E OF		
	SBY NM)		N	NE	E	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL		
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
<	1/5	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
		TOT *	.0	.0	.0	.0	.0	.0	• 0	.0	.0	.0	.0			
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			-
1	/2<1	NO PCP	. 1	.0	.0	.0	.0		.1	.0	.0	.0	. 2			
		TOT \$. 1	.0	.0	.0	.0		. 1	.0	.0	.0	.2			
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
1.	<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
		TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
		PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3			
2.	<5	NO PCP	. 3		.1		. 5	. 5	.4	.1	.0	.1	2.1			
		TOT %	.3		. 1	. 1	.6	.6	.4	. 1	.0	.1	2.4			
		PCP	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4			
5.	<10	NO PCP	.4	. 5		1.5	6.3	.0	.0	. 3	.0	1.8	12.2			
		TOT %	.5	.5	.2	1.7	6.4	.9	.3	, 3	.0	1.8	12.6			
		PCP	.0	.0	.0	. 1	.2		.0	.0	.0	.1	.4			
1	0+	NO PCP	2.1	2.1	2.2	15.2	46.5	7.6	1.6	1.3	.0	5.8	84.5			
•	-	TOT &	2.1	2.1	2.2	15.2	46.6	7.7	1.8	1.3	.0	5.9	84.8			

TOT 785 TOT PCT 3.0 2.7 2.5 17.0 53.6 9.2 2.6 1.7 .0 7.7 100.0

C1/2 4-10	VSBY (NM)	SPD	N	NE	E	SE	5	5 W	×	NW	VAR	CALM	PCT	TOTAL	
C1/2 4-10	(MM)		^	. ^		. 0		0	0	0		•	- 0	003	
11-21	(1/2														
22+ .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0								. 0							
TOT									.0						
1/2<1 4-10								.0			.0	.0			
11-21 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0												.0			
22+ .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1/2<1			.0		.0					.0				
TOT X .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .1 .1 1<2 4-10 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0									.0						
0-3								.0	.0						
142 4-10 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		TOT %	-1	•0	•0	•0	.0	•	.1	.0	.0	٠.	• 2		
11-21 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0												.1			
22+ .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1<2								.0						
TOT # .0 .0 .0 .0 .1 * .0 .0 .0 .1 .1 0-3 .0 .0 .0 .1 .1 .1 .0 .0 .0 .0 .1 .1 2<5 4-10 .2 * * * .1 .2 .5 .2 .1 .0 .1 .0 .0 .0 .3 11-21 .0 .0 .0 .0 .1 .2 .0 .1 .0 .0 .0 .0 .3 22+ .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0															
0-3 .0 .0 .1 .0 .1 .1 .0 .0 .0 .0 .1 .3 2<5 4-10 .2 * * * 1 .2 .5 .2 .1 .0 .1 .4 11-21 .0 .0 .0 .0 .1 .2 .0 .1 .0 .0 .0 .3 22+ .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 TOT % .2 * .1 .1 .1 .4 .6 .3 .1 .0 .1 .2 .1 0-2 .3 .2 .0 .3 11.0 .1 .1 .2 .0 .1 .0 .1 .21 5<10 4-10 .7 .4 .2 .9 3.1 .8 .3 .5 .0 .6.5 11-21 .1 .0 .1 .3 1.6 .0 .0 .0 .0 .0 .0 .0 .0 .0 TOT % .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0															
2 <pre>2<pre>2<pre>4-10</pre></pre></pre>		107 %	.0	•0	.0	•0	•1	•	.0	.0	•0	• • •	•1		
11=21 .0 .0 .0 .0 .1 .2 .0 .1 .0 .0 .0 .3 .2 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0								.1				.1			
22+ .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	265								• •				1.4		
TOT X .2															
0-3															
5<10 4-10 .7 .4 .2 .9 3.1 .8 .3 .5 .0 6.5 11-21 .1 .0 .1 .3 1.6 .0 .0 .0 .0 .0 .0 TOT % 1.0 .6 .2 1.5 5.6 .9 .3 .4 .0 2.0 12.6 0-3 .8 .8 .5 1.0 4.1 1.1 .4 .4 .0 8.6 17.7 10+ 4-10 2.0 1.3 1.3 7.2 23.2 4.9 1.2 1.4 .0 42.5 11-21 .1 .2 .1 4.7 16.3 2.1 .0 .0 .0 23.5 22+ .0 .0 .0 .2 1.0 .1 .0 .0 .0 .0 23.5 TOT % 2.9 2.2 2.0 13.1 44.6 8.2 1.7 1.8 .0 8.6 85.0		TOT %		•	•1	•1	. •			•1	.0	•1	2.1		
11-21 .1 .0 .1 .3 1.6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		0-3		.2	.0	.3	1.0				.0	2.0	4.1		
22+ .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	5<10	4-10		.4	.2					. 3	.0				
TOT % 1.0 .6 .2 1.5 5.6 .9 .3 .4 .0 2.0 12.6 0-3 .8 .8 .5 1.0 4.1 1.1 .4 .4 .0 6.6 17.7 10+ 4-10 2.0 1.3 1.3 7.2 23.2 4.9 1.2 1.4 .0 42.5 11-21 .1 .2 .1 4.7 16.3 2.1 .0 .0 .0 23.5 22+ .0 .0 .0 .2 1.0 .1 .0 .0 .0 1.3 TOT % 2.9 2.2 2.0 13.1 44.6 8.2 1.7 1.8 .0 8.6 85.0		11-21			. 1						.0				
0-3 .8 .8 .5 1.0 4.1 1.1 .4 .4 .0 8.6 17.7 10+ 4-10 2.0 1.3 1.3 7.2 23.2 4.9 1.2 1.4 .0 42.5 11-21 .1 .2 .1 4.7 16.3 2.1 .0 .0 .0 23.5 22+ .0 .0 .0 .2 1.0 .1 .0 .0 .0 23.5 707 x 2.9 2.2 2.0 13.1 44.6 8.2 1.7 1.8 .0 8.6 85.0								.0	.0		.0				
10+ 4-10 2.0 1.3 1.3 7.2 23.2 4.9 1.2 1.4 .0 42.5 11-21 .1 .2 .1 4.7 16.3 2.1 .0 .0 .0 23.5 22+ .0 .0 .0 .2 1.0 .1 .0 .0 .0 1.3 707 % 2.9 2.2 2.0 13.1 44.6 8.2 1.7 1.8 .0 8.6 85.0		TOT \$	1.0	•6	•2	1.5	5.6	.9	.3	.4	.0	2.0	12.6		
11-21 .1 .2 .1 4.7 16.3 2.1 .0 .0 .0 23.5 22.4 .0 .0 .0 .0 1.3 707 % 2.9 2.2 2.0 13.1 44.6 8.2 1.7 1.8 .0 8.6 85.0								1.1				6.6			
22+ .0 .0 .0 .2 1.0 .1 .0 .0 .0 1.3 707 % 2.9 2.2 2.0 13.1 44.6 8.2 1.7 1.8 .0 8.6 85.0 707 085	10+					7.2									
707 x 2.9 2.2 2.0 13.1 44.6 8.2 1.7 1.8 .0 8.6 85.0						4.7					.0				
THT 085					.0		1.0		.0		.0				
THE DES 1449 THE PCT 4.2 2.9 2.3 14.8 50.7 9.7 2.4 2.3 .0 10.8 100.0		107 %	2.9	2.2	2.0	13.1	44.0	8.2	1.7	1.8	.0	8.6	85.0		
THT PET 4.2 2.9 2.3 14.8 50.7 9.7 2.4 2.3 .0 10.8 100.0	T	חד מפג												1449	
	T	TT PET	4.2	2.9	2.3	14.8	50.7	9.7	2.4	2.3	.0	10.8	100.0		

JUNE

PERIOD: (PRIMARY) 1908-1977 (DVER-ALL) 1855-1977 AREA 0030 ANTDFAGASTA TABLE 10 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR BOOD+ TOTAL NH <5/8 60300 1.0 67.7 32.3 195 .4 11.7 35.4 20.6 6.3 .0 75.3 24.7 223 .4 16.2 38.2 17.1 3.5 1.3 77.6 18621 .0 .5 1.4 8.2 29.3 17.3 3.8 .0 61.1 5 105 282 158 39 5 70.7

TABLE 11 TABLE 12 CUMULATIVE PCT FREQ DF RANGES DF VSBY (NM) AND/DR CEILING HGT (FEET,NM >4/8),BY HOUR PERCENT FREQUENCY VSBY (NM) BY HOUR <1/2 1/2<1 142 245 5410 10+ TOTAL DBS 00603 1.1 14.7 54.2 31.1 190 06609 06609 .5 12.8 64.7 218 12615 326 12815 .9 18.0 62.2 18821 .0 .0 .0 1.8 339 18621 9.4 68.8 .0 2.0 10.6 53.3 POT 9 117 488 1.1 14.1 58.9

TABLE 13 TABLE 14 PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP PERCENT PREQUENCY OF WIND DIRECTION BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ TEMP F SE VAR CALM .1 .0 .1 .0 .3 .4 4.3 3.0 1.2 12.5 26.4 16.4 .1 1.8 10.7 10.0 .0 .0 2.5 18 168 396 281 1.9 17.9 42.3 30.0 75/79 70/74 65/69 60/64 55/59 50/54 TOTAL PCT 0 0 1.2 3.7 3.0 0 74 7.9 2 .2 10 1.1 114 12.2 564 60.2 240 25.6 7 .7 937 100.0 .0 .1 1.8 1.4 1.3 .0 .2 1.2 1.0 .0 .3 3.7 11.4 1.5 .0 .2 .5 1.6 .0 .5 1.3 .4 .2 .0 .6 5.7 1.8 000000000000000 2.4 16.9 51.5 9.6

TABLE 15 TABLE 16 MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR 1% MIN MEAN TOTAL
UBS
55 51 60.8 771
54 49 59.7 1520
53 51 60.3 702
55 52 63.0 1615
54 49 61.1 4608 0-29 30-59 60-69 70-79 80-89 90-100 MEAN 80 68 82 79 82 67 65 67 73 70 56 55 56 58 56 65 64 65 69 60 60 63 .0000

PERIOD: (PRIMARY) 1908-1977 (OVER-ALL) 1855-1977

TABLE 17

AREA 0030 ANTOFAGASTA 22,25 71.5W

OCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53	57	61	65 68	69 72	73 76	77 80	TOT	FOG	FOG
14/16	.0	.0	.0	.0	.0	:1	.0	1	.0	.1 .2 .3 .4 .8 1.5 2.2
9/10	.0	.0	.1	• 0	.0	.1	.0	2	.0	.2
7/8	.0	.0	.0	.1	.0	.1	.1	2	.0	. 3
6	.0	.0	.0	.1	. 3	.0	.0	4	.0	.4
5	.1	.0	.4	. 3	. 1	.0	.0	9	.1	. 8
4	.0	.1	.5	.7	. 2	.0	.0	15	.0	1.5
3	.0	.1		1.3	.0 .3 .1 .2 .0 .4 .1 .1	.0	.0000	23	.1	2.2
2	- 1	.6	2.5	1.2	. 4	.0	.0	48	.0	4.9
	.1	1.7	2.4	1.0	. 1	. 0	. 0	54	.0	5,5
0	.4	3.5	6.1		1	.0	.0	120	.1	12.0
-1	.0	4.7	6.2	1.8	.1		.0	126	.0	12 8
-2	.,	5.4	10.2	1.4	. 0	.0	.0	177	.0	12.8
-3		6.3	8.8	.6		.0	.0	155	.0	14.7
-4	.0		0.0	.0	.0	.0	.0		.0	15.7
-5	.7	5.0	5.9	.5	.0	.0	.0	119	.0	12.0
	.6	3.6	2.7	. ,	.0	.0	.0	74	.0	7.5
-6	.5	. 8	1.0	.1	.0	.0	.0	24	.0	2.4
-7/-8	.5	1.6	. 8	.0	.0	.0	.0	29	.0	2.9
-9/-10	.0	. 4	.1	.0	.0	.0	.0	5	. 1	.4
TOTAL	40		480		13		1		4	984
		334		116		4		988		
PCT	4.0		48.6	11.7	1.3	.4	. 1	100.0	.4	99.6

PERIOD:	COVE	R-ALL)	1963-1	977				TABLE	18						
				PC	T FREQ	OF WIND	SPEED	(KTS) AND	DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT	,	
				M								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	. 2	.0	.0	.0	.0	.4		.6		.0	.0	.0	.0	.6
1-2	.3	1.3	.0	.0	.0	.0	1.6		.0	.9	.1	.0		.0	1.0
3-4	.0	.3	.7	.0	.0	.0	. 4		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.2	.0	.0	.0	. 2		.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	•0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	•0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	•0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	• 0	.0	.0
49-60	.0	.0	.0	.0		.0	.0		.0	:0	.0	.0	• 0	.0	.0
61-70	.0	:0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.8	.4	.0	.0	.0	2,6		.6	.9	.2	.0	.0	.0	1.7
101 -01	••	1.0	• •	.0	••	••	2,0		••	• • •	•-	••	••		•••
				_											
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	SE 22-33	34-47	48+	PCT
<1	2	.5	.0	.0	.0	.0	.7		.8	1.5	.0	.0	.0	.0	2.3
1-2	.0	.2	.4	.0	.0	.0	. 6		. 3	2.9	1.4	.0	.0	.0	4.6
3-4	.0	.0	.0	.0	.0	.0	,0		.0	4.6	2.0	.0	.0	.0	6.6
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.9	2.5	.0	.0	.0	3.4
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.7	. 3	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	,0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	. 0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	. 2	.7	.4	.0	.0	•0	1,3		1.1	9,9	6.6	.3	.0	.0	17.8

PERIODI	LOVE	- ALL)	1963-1	077					JUNE				ADEA	0030	ANTOEAC	ACTA
	1016	-4667	1,03-1					TABLE	18 (CUNT)				AKEA	22.		.5W
				PC	T FREQ	DF WIND	SPEED	(KTS)	AND DIREC	TION	VERSUS S	EA HEIG	HTS (FT)			
				5								SW				
HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT		1-3	4-10		22-33	34-47	48+	PCT	
<1	1.6	3.0	.5	.0	.0	.0	5.1		.6	1.1		.0	.0	.0	1.6	
1-2	. 3	16.5	2.8	.0	.0	.0	19.6		. 8	2.8		.0	.0	.0	3.9	
3-4	.0	6.0	9.5	.0	.0	.0	15.5		.0	. 0		.0	.0	.0	1.3	
5-6	.0	. 9	8.0	.3	.0	.0	9.2		.0	.0		.0	.0	.0	.6	
7	.0	.4	1.8	.5	.0	.0	2.8		.0	. 1		.0	.0	.0	. 1	
8-9	.0	.0	1.0	. 8	.0	.0	1,8		.0	.0		.2	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	. 0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	• 0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	• 0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
DT PCT	1.9	26.8	23.7	1.6	.0	.0	54.1		1.3	4.6	1.6	.2	.0	.0	7.7	
				W								NW				TOTA
HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.0	.0	.0	.0	.0	.3		.3	.0	.0	.0	.0	.0	.3	
1-2	.5	1.8	.0	.0	.0	.0	2,3		.0	1.6	0	.0	. 0	.0	1.6	
3-4	.0	. 2	.0	.0	.0	.0	.2		.0	.0		.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	•0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	. 0	.0	.0	.0	.0	.0	
DT PCT	.8	2.0	.0		.0		2.8		.3	1.6		.0	.0			89.

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	15.8	6.2	. 5	.0	.0	.0	22.5	003
		27.7			.0		35.1	
		11.4	12.1		.0		23.5	
5-6		1.7	11.1	.2	.0			
7		. 5	2.5	.7			3.7	
8-9	.0	.0	1.0	1.0	.0			
		.0		.0	.0			
	.0	.0			.0		.0	
		.0			.0			
	.0				.0	.0		
		.0						
	.0	.0			.0			
	.0	.0			.0			
					.0			
	.0				.0		.0	
		.0						
		•	•••	••				404
TOT PC	18.3	47.5	32.2	2.0	.0	.0	100.0	
	<1 1-2 3-4 5-6 7 8-9 10-11 12 13-16 17-19 23-25 26-32 34-48 49-60 61-70 71-86 87+	HGT 0=3 <1 15.8 1-2 2.5 3-4 .0 7 .0 8-9 .0 10-11 .0 12 .0 13-16 .0 17-19 .0 20-22 .0 23-25 .0 26-32 .0 33-40 .0 41-48 .0 49-60 .0 61-70 .0 87+ .0	HGT 0=3 4-10 <1 15,8 6,2 1-2 2.5 27,7 3-4 0 11,4 5-6 0 1,7 7 0 5 8-9 0 0 1 12 0 0 0 17-19 0 0 0 20-22 0 0 0 23-25 0 0 0 26-32 0 0 0 33-40 0 0 0 41-48 0 0 0 41-68 0 0 0 61-70 0 0 87+ 0 0	HGT 0=3 4-10 11-21 <1 15.8 6.2 .5 1-2 2.5 27.7 5.0 3-4 .0 11.4 12.1 5-6 .0 1.7 11.1 7 .0 .5 2.5 8-9 .0 .0 .0 1.0 12 .0 .0 .0 12 .0 .0 .0 17-19 .0 .0 .0 20-22 .0 .0 .0 20-23 .0 .0 .0 20-25 .0 .0 .0 20-26 .0 .0 .0 20-27 .0 .0 .0 20-27 .0 .0 .0 20-27 .0 .0 .0 20-28 .0 .0 .0 20-29 .0 .0 .0 20-20 .0 .0 .0 20-20 .0 .0 .0 20-21 .0 .0 .0 20-27 .0 .0 .0 20-28 .0 .0 .0 .0 20-29 .0 .0 .0 .0 20-20 .0 .0 .0 .0 20-21 .0 .0 .0 .0 20-21 .0 .0 .0 .0 20-21 .0 .0 .0 .0 20-21 .0 .0 .0 .0 20-21 .0 .0 .0 .0 20-21 .0 .0 .0 .0 20-21 .0 .0 .0 .0 20-21 .0 .0 .0 .0 .0 21-48 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 87+ .0 .0 .0 .0	HGT 0=3 4-10 11-21 22-33 C1 15.8 6.2	HGT 0=3 4-10 11-21 22-33 34-47 <1 15.8 6.2 .5 .0 .0 .0 1-2 2.5 27.7 5.0 .0 .0 3-4 .0 11.4 12.1 .0 .0 5-6 .0 1.7 11.1 .2 .0 7 .0 .5 2.5 .7 .0 10-11 .0 .0 .1 .0 1.0 .0 12 .0 .0 .0 .0 .0 .0 .0 12 .0 .0 .0 .0 .0 .0 13-16 .0 .0 .0 .0 .0 .0 .0 17-19 .0 .0 .0 .0 .0 .0 17-19 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 23-340 .0 .0 .0 .0 .0 .0 33-40 .0 .0 .0 .0 .0 .0 41-48 .0 .0 .0 .0 .0 .0 41-66 .0 .0 .0 .0 .0 .0 61-70 .0 .0 .0 .0 .0 .0 87+ .0 .0 .0 .0 .0 .0	C1 15.8 6.2 .5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	HGT 0=3 4-10 11=21 22=33 34=47 48+ PCT <1 15.8 6.2 .5 .0 .0 .0 .0 .0 35.1 1-2 2.5 27.7 5.0 .0 .0 .0 .0 35.1 3-4 .0 11.4 12.1 .0 .0 .0 22.5 5-6 .0 1.7 11.1 .2 .0 .0 13.1 7 .0 .5 2.5 .7 .0 .0 .0 3.7 8-9 .0 .0 1.0 1.0 0 .0 .0 3.7 12 .0 .0 1.0 1.0 1.0 .0 .0 .0 3.7 12 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 12 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 17-19 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 17-19 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 23-25 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 23-340 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 33-40 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 41-48 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 41-48 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 81-70 .0 .0 .0 .0 .0 .0 .0 .0 .0 87+ .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

PERIO): (DV	ER-ALL	194	9-197	7				TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HEI	GHT (F	r) vs	WAVE P	ERIOD	(SECON	08)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	3.6	8.4	9.7	4.5	1.4	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	204	3
6-7	.1	1.3	6.6	11.2	4.5	2.2	1.7	.7	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	210	6
8-9	.1	.7	4.3	3.9	4.1	2.9	1.4	.7	1.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	144	7
10-11	.0	.6	.6	2.0	1.1	1.3	1.5	1.3		.0	.0	.0	.0		.0	.0	.0	.0	.0	62	8
12-13	.0	.0	. 3	.3	.7	1.1	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	8
>13	.0	.0	.0	.1	.0	.1	.3	.0		.0	.0	.0	.0		.0	.0	.0	.0	.0		8
INDET	3.2	2.0	1.7	. 8	1.1	.3	.3	.1	-	.0	.0	.0	.0		.0	.0	.0	.0	.0	68	3
TOTAL	51	92	165	163	92	60	40	24	21	1	5	0	0	0	0	0	0	0	0	714	5
PCT	7.1	12.9	23.1	22.A	12.9	8.4	5.6	3.4	2.9	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AREA 0030 ANTOFAGASTA 22.05 71.5W

PERCENT	FREQUENCY	DE	WEATHER	OCCURRENCE	 MIND	DIRECTION

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
WNO DIR	RAIN	SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THDR	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE		
N NE	:0	.0	.0	:0	.0	.0	.0	:0	:0	:0	:0	:0	.0	.0	100.0
SE SE	1.2	.0	1.4	.0	.0	.0	.0	2.6	1.8	.0	.0	.0	.0		100.0
SW	.0	.0	1.8	.0	.0	.0	.0	1.8	.5	.0	.9	.0	1.4	.1	97.8
NW	.0	.0	.0	.0	.0		.0	:0	.0	.0	5.2	•0	9.5	.0	90.5
CALM	.0	.0	1.3	.0	.0	.0	.0	1.3	1.3	.0	.0	.0	4.0	.0	93.3
TOT PCT	1005	.2	.8	.0	.0	•0	.0	1.1	.7	.0	.5	•0	1.0	.1	96.6

7481 E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

			,	RECIPI	TATIO	N IANE					DTHEK	WEATHER	PHEND	MENA	
HOUR (GMT)	PAIN	RAIN	DRZL	FRZG PCPN	SNOW	FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	.0	.0	1.4 1.5	.0	.0	.0	.0	1:7 1:5	1.5 1.5	.00	.9	•0	1.3	.0	97.3 96.3 95.1 97.9
TOT PCT	.2	.2	. 8	.0	.0	.0	.0	1.1	.8	.0	.5	•0	1.0	.1	96.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WIR	NO SPE	ED (KN	OTS)								HOUR	(GMT)			
WND DIR	0-3				34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	2.1	3.5	.3		.0	.0		5.9	5.2	4.2	6.7	8.3	9.4	6.4	2.7	4.1	3.5
NE	1.0	.7	.1	.0	.0	.0		1.8	4.0	1.1	3,8	2.4	3.1	2.0	2.7	1.4	. 5
E	1.1	1.4	.3		.0	.0		2.8	5.8	1.6	.0	2.6	4,3	5.2	1.4	2.4	1.0
SE	3.1	9.1	6.6	.9	• 1	.0		19.8	9.8	18.0	13.5	16.5	19.0	24.3	17.6	20.7	21.0
S	8.3	22.0	12.4	1.7	.1	.0		44.6	9.0	49.3	29.8	44.0	38.1	39.3	49.3	46.6	49.9
SW	2.6	5.1	1.0		.0	.0		8.7	6.3	11.2	22.1	7.4	6.0	7.0	14.2	9.3	11.2
*	1.0	1.2	.2		.0	.0		2.4	4.8	2.8	3.8	3.0	2.2	1.4	6.8	2.0	2.7
NW	1.6	1.9	. 3		.0	.0		3.8	5.5	2.6	1.0	3.7	4.7	3.0	.0		5.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	10.2	•		1.5	•			10.2	.0	9.1	19.2	12.2	13.3	11.5	5.4	9.1	5.1
TOT OBS	1742	2512	1184	158	8	0	5604		7.4	864	26	1033	767	815	37	1531	531
TOT PCT	31.1	44.8	21.1	2.8	• 1	.0		100.0		100.0	100.0	100.0	100.0		100.0		

TABLE 3A

WND DIR	0-6	7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL OBS	PCT	MEAN SPD	00	HDU1 06 09	12 15	18 21
N NE	4.5	1.4	.0		:0		5.9	5.2	4.3	8.8	6.2	4.0
	2.0	.7	.1		.0		2.8	5.8	1.6	3.3	5.0	2.0
SE	7.3	9.4	2,8	.0	.0		19.8	9.8	17.9	17.6	24.0	20.8
5	19.4	19.2	5,6	.4	.0		44.6	9.0	48.7	41.5	39.7	47.5
SW	5.5	2.9	.3		.0		8.7	6.3	11.5	6.8	7.3	9.8
W	1.9	.4		.0	.0		2.4	4.8	2.9	2.6	1.6	2.2
NM	2.7	1.0	.1		.0		3.8	5.5	2.6	4.1	2.8	4.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.2						10.2	.0	9.4	12.7	11.3	8.1
TOT DBS	3073	1983	505	43	0	5604		7.4	890	1800	852	2062
TOT PCT	54.8	35.4	9.0	. 8	.0		100.0		100.0	100.0	100.0	100.0

u		

PERIOD:	(PRIMARY)	1907-1976
	(DVER-ALL)	1870-1976

AREA 0030 ANTOFAGASTA 22.05 71.5W

PERCENTAGE	FREQUENCY	OF	WIND	SPEED	BY	HOUR	(GMT

HOUR	CALM	1-3	4-10	11-21	SPEED 22-33		48+	MEAN	PCT	TOTAL
00603	9.4	19.8	44.2	22.9	3,6	.1	.0	7.8	100.0	890
96609	12.7	21.7	45.7	17.4	2.3	.2	.0	6.7	100.0	1800
12415	11.3	19.7	44.5	21.8	2.7	.0	.0		100.0	852
18621	8.1	21.0	44.5	23.3	3.0	.1	.0	7.7	100.0	2062
TOT	574	1168	2512	1184	158	8	0	7.4		5604
PCT	10.2	20.8	44.8	21.1	2.8	.1	.0		100.0	

												ADEE O						
P	CT FRE			CLUUD A		(EIGHTHS)			PERCEN	AND DO	REQUEN	CY OF	CEILIN	G HEIG	HTS (T,NH	4/81 IN	
WND DIR	0=2	3-4	5-7	8 6	TOTAL	CLOUD COVER	000 149	150 299	300 599	600 959	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.6	.2	.8	2.0		6,2	.0	.0	.0	.9	. 8	.5	.3	.0	.0	. 3	. 9	
NE	.2	. 2	.2	. 3		5.0	.0	.0	.0	. 2	.1	.1	.0	.0	.0	. 0	. 4	
E	.0	.0	.2	1.0		7.7	.0	.0	.0	.1	.6		.0	.0	.0	.0	.1	
SE	1.0	1.0	5.1	11.4		6,9	.0	.2	.4	2.9	6.5	4.0	1.4	.5	.0	.0	2.8	
S	7.2	5.0	12.7	28.0		6.2	.1	.4	. 3	7.5	22.2	7.5		.7	.3	.3	14.2	
SW	1.3	1.0	2.1	6.8		6.5	.0	.0		2.5	3.7	1.7		.1	.1	.0	2.6	
W	.5	.0	• 2	1.1		6.0	.0	.0	.0			. 3	.0	. 0				
NW	.6	.1	.0			4.9	.0	.0	.0	.3	. 5	.,	.0	.0	.0	.0	• • • •	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	• • •	.0	.0	.0	.0	• 6	
CALM	.4	.5	.5	6.1		7.1	.0	.0	.0	1.1	4.1	1.2	•	.0		• •	0	
TOT OBS	89	61	166	443	759	6.4	• • •		• •	118	298	120	19	10	.0	.0	1.1	
TOT PCT	11.7		21.9			0,4		- 7							,	•	176	759
101 701	11.	8.0	21.9	58.4	100.0		.1	.5	, 8	15.5	39.3	15.8	2.5	1.3		.5	23.2	100.0

CUMULATIVE	PCT	FREQ	OF SIMUL	TANEOUS	DECURRENCE
OF CETI I	NC HE	PEHT	INH SAIS	I AND VE	POV INN

			7)5.0				•	
				VSBY (NA	1)			
CEILING	• OR	• DR	. DR	- OR	• OR	- OR	 DR 	= DR
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
DR >6500	.6	.9	.9	.9	.9	.9	.9	.9
DR >5000	1.8	2.2	2.2	2.2	2.2	2.2	2.2	2.2
OR >3500	4.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8
DK >2000	18.3	20.9	20.9	20.9	20.9	20.9	20.9	20.9
DK >1000	52.2	59.7	59.8	59.8	59.8	59.8	59.8	59.8
OR >600	64.8	74.6	74.9	74.9	75.0	75.0	75.0	75.0
TK >300	65.6	75.4	75.6	75.6	75.8	75.8	75.8	75.8
OR >150	66.0	75.9	76.2	76.2	76.3	76.3	76.3	76.3
DR > 0	66.0	76.0	76.3	76.3	76.4	76.4	76.4	76.4
TOTAL	512	590	592	592	593	593	593	593
			• • •					

TOTAL NUMBER OF OBS: 776 PCT FREQ NH <5/81 23.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

5.7 3.7 5.6 4.9 4.1 3.4 9.1 10.4 53.0 .1 858

PERIOD: (PRIMARY) 1907-1976 (DVER-ALL) 1870-1976 AREA 0030 ANTOFAGASTA 22.05 71.5W

				FRECI		UN MII	H VART	THO AW	EUES (A 12	IBILITY		
VSBY (NM)		N	NE	F	SE	5	SW	W	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	. 1	
1/2<1	NO PCP	.0	.0	.0	.0	. 1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	. 1	. 1	.0	.0	.0	.0	.0	. 2	

TOT OUS TOT PCT 4.2 1.1 1.3 16.6 54.4 11.0 2.1 1.9 .0 7.5 100.0

....

VSBY (NM)	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
•	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	•0	
1 1000	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	• 0	.0	. 1	.0	.0	.0	.0	.0		• 1	
	11-21	.0	• 0	• 0	•0	.0	.0	.0	.0	.0		• 0	
	224	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	• 0	.0	.1	•1	.0	.0	.0	.0	.0	.2	
	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	•0	•0	.0	.0	.1	.0	.0	.0	• 1	
	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
2<5	4-10	.1	.0	*	. 3	. 1		.0	. 2	.0		. 7	
	11-21	.0	.0	.0	.0	.0	. 1	.0	.0	.0		•1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT #	- 1	•0		.3	.2	.1	.0	.2	.0	.0	. 8	
	0-3	.4	.0	.1	.1	.9	.4	.2	.1	.0	2.3	4.4	
5<10	4-10	.6	• 1	.2	1.3	3.3	1.5	.2	.3	.0		7.5	
	11-21	.2	•0	•0	.7	. 8	.0	.0	.0	.0		1.6	
	22+	0	•0	.0		. 3	.0	.0	.0	.0		3	
	TOT %	1.1	• 1	.3	2.1	5.3	1.9	.4	.4	.0	2.3	13.7	
	0-3	.7	.3	.2	. 8	4.2	1.0	.2	.6	.0	7.6	15.6	
10+	4-10	3.1	.9	.6	6.3	23.1	6.8	1.3	1.2	.0		43.3	
	11-21	.1	• 1	• 2	5.9	16.8	1.3	.0	.2	.0		24.6	
	22+	.0	.0	.0	1	1.5	- 1	.0	.0	.0		1.7	
	TOT %	3.9	1.4	1.0	13.1	45.6	9.2	1.5	1.9	.0	7.6	85.2	
1	OT OAS												1331
1	OT PCT	5.1	1.5	1.3	15.5	51.1	11.2	2.0	2.5	.0	9.8	100.0	

PAGE 434

PERIOD:	(PRIMARY)	1907-1976
	(DVER-ALL)	1070 1074

AREA 0030 ANTOFAGASTA 22.05 71.5W

PERCENT	FREQUENCY	DE	CE	II ING	HEIGHT	S (FEET, NH	34/81	AND

						CORNER	65 01			DOK			
HDUR (GMT)	149	150 299	300 599	600	1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
60300	.0	.6	1.2	10.4	36.4	13.9	1.7	1.2	1.2	.6	67.1	32.9	173
90300	. 5	.0	.5	17.1	37.0	17.1	2.3	1.4	.0	.0	75.9	24.1	216
12615	.0	1.4	.5	16.7	41.2	14.0	3.6	1.4	.5	.5	79.6	20.4	221
18621	.0	.0	1.1	13.8	36.0	17.5	2.1	1.1	.0	1.1	72.5	27.5	189
TOT	.1	.5	.8	118	302	125	20	10	3	.5	593 74.2	206	799

TARIE

TABLE 12

		PERCENT	FREQUENCY	VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)),BY HOUR	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00603	.0	.0	.4	1.1	13.5	85.1	282	00803	.0	1.8	13.2	56,9	29.9	167
06609	.0	.2	.0	.7	16.7	82.4	437	06409	,5	.9	18.5	59.2	22.3	211
12615	.0	.3	.0	.6	12.7	86.3	322	12615	.0	2.3	19.5	62,3	18.1	215
18621	.0	.0	.0	1.0	12.9	86.1	310	18521	.0	1.1	15.8	59.6	24.6	183
TOT	0	2	1	11	192	1145	1351	TOT	1	12	132	463	181	776

TABLE 13

TABLE 14

	PERC	ENT FR	EQUENC	0 F R	ELATIVE	HUMI	DITY 8	Y TEMP	TOTAL	PCT		PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY TI	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	•0	.0	•0	.3	1.8	0	.0	•0	37	3.9	•0	.0	.0	•1	2	.0	.0	.1	.0	•0
60/64	.0	.0	•1	1.1	12.5	20.9	8.7	1,3	426	44.8	1.2	.7	.7	10.1	21.5	5.5	.5	.9	.0	3.7
55/59 50/54	.0	.0	•0	.6	6.6	22.4	16.0	3.3	19	2.0	2.3	.8	.7	6.5	26.6	6.3	1.3	.6	.0	3.8
TOTAL	0		.4	20	200	432	252	43		100.0	3.9	1.5	1.4	17.2	52.3	12.3	1.8	1.7	.0	7.9

TABLE 15

TABLE 16

	MEANS,	EXIKEME	5 AND	PERCEN	TILES	OF IE	TP LDE	U F) B	T HUUK
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00603	69	64	63	59	55	54	46	59.1	885
90300	67	63	62	58	54	53	50	58.3	1806
12615	73	66	63	59	55	53	51	58.8	846
18821	75	71	67	61	57	54	52	61.4	2000
TOT	75	68	65	59	55	54	46	59.6	5537

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

O=29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL
OBS
0803 .0 .9 20.0 46.2 29.3 3.6 76 225
6609 .0 2.5 12.3 45.3 34.4 5.6 78 285
2215 .0 2.5 20.7 45.2 26.6 5.0 76 241
821 .0 4.1 32.4 47.9 12.3 3.2 72 219
TOT 0 24 201 447 255 43 76 970

PERIOD: (PRIMARY) 1907-1976 (OVER-ALL) 1870-1976

TABLE 17

AREA 0030 ANTOFAGASTA 22.05 71.5W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61	65	69 72	73 76	TOT	FOG	FOG
9/10	.0	.0	.1	.1	.0	.1	:0	3 7	.0	1.5 1.9 2.9 4.0 7.0
7/8	.0	.0	.0	. 1	.2	. 3	. 1	7	.0	. 8
é	.0	.0	.1	.2	.1	.0	.0	4	.0	.4
6 5	.0	. 2	.3	. 2	.3	. 3	.1	14	.0	1.5
4	.0	.1	.1	. 9	. 5	. 1	.0	18	.0	1.9
3	.0	. 1	. 4	1.6	. 8	.0	.0	27	.0	2.9
2	.0	. 2	1.5	1.9	. 3	.0	. 0	18 27 37	.0	4.0
1	.0	.0	2.5	1 .2 .2 .9 1.6 1.9 3.3	.0 .2 .1 .3 .5 .8 .3 1.0	.0	.0	65	.0	7.0
ō	-1	. 6	6.2	5.9	. 3	.0	.0	123	.0	13.2
-1	.00.00	. 6	7.3	3.8	.2	.1 .0 .0 .0 .0 .0 .0	.0	113	.0	12.1
0 -1 -2 -3 -4	.1	2.6	9.7	4.4	.3 .2 .0 .0 .0 .0 .1 .0 38	.0	.0	156	.0	13.2 12.1 16.5
-3	- 1	2.4	11.1	2.7	. 2	.00000	.0	153	.1	16.3
-4	.0	1.2	7.2	1.6	.0	.0	.0	153	.0	16.3
-5	- 1	1.5	4.0	1.4	.0	. 0	.0	65	.0	7.0
-6	.0	1.4	1.6		. 1	. 0	,0	31	.0	3,3
-7/-8	.0	1.1	1.1	.2	0	. 0	.0	22	.1	2.3
TOTAL	4		497	••	38	• •	2		4	927
ICIAL	-	114	471	266	,,		•	931		,
PCT	.4	116	53.4	28.6	4.1	.9	.2	100.0	.4	99.6

PERIOD: (DVER-ALL) 1963-1976

TABLE 18

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND	DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)	
HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PET			1=3	4-10	11-21	NE 22-33	34-47	48+	PCT
<1	.5	.2	.2	.0	.0	.0	.9			.0	.3	•1	.0	.0	.0	.4
1-2	.3	1.6	.0	.0	.0	.0	1,8			.0	.1	.0	.0	.0	.0	.1
3-4	. 3	.3	.0	.0	.0	.0	, 5			.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	,0			.0	.0	.0	.0	.0	.0	.0
12 13-16	.0	.0	.0	.0	.0	.0				.0	.0	.0	.0	. 0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	, 0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	,0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	,0	.0	. 0			.0	.0	.0	.0	. 0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0
874	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
B7+	1.0	2.0	.2	.0	.0	.0	3.2			.0	.4	.1	.0	000000000000000000000000000000000000000	.0	.0
				•									22-33	_		
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	, 5			.4	.7	.0	.0	.0	.0	1.1
1-2	.0	.2	.0	.0	.0	.0	,2			.0	3.0	1.7	.0	.0	.0	4.7
3-4	.0	.0	.0	.0	.0	.0	.0			.0	2.6	3,4	.0	.0	.0	5.9
5-6	.0	.0	. 3	.0	.0	.0				.0	.8	3.4	.0	.0	.0	4.3
7	.0	.0	.0	.0	.0	.0	.0			.0	.3	1.3	.0	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.3	.0	.0	.3
13-10	.0	.0	.0	.0	.0	.0	.00			.0	.0	.0	.0	.0	.0	.0
17-19	,0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0000	.0	.0	.0	.0	.00
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0			.0	0	.0	.0	000000000000000000000000000000000000000	.0	.0
TOT PCT	.5	.2	.3	.0	.0	.0	. 9			.4	7.4	9,8	.3	.0	.0	17.9

PERIOD:	(DVE	9-411)	1963-1	0-4					JULY				4054	0030	ANTOFAC	
PER 100.	LUVE	N-ACL,	1703-1	4/6				TABLE	18 (CONT)				AKEA	22.	OS 71	.5K
				P.C	T ERFO	DE WIND	SPEED	(KTS)	AND DIREC	TION	VERSUS	SEA HE10	HTS (FT			
						OF #110	31660	14.3.	AND DINEC		. [.] .]					
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.9	4.3	. 5	.0	.0	.0	7.7		1.6	1.2		.0	.0	.0	2.8	
1-2	. 5	10.3	2.9	.0	.0	.0	13.6		. 9	4.0		.0	. 0	.0	5.1	
3-4	.0	6.8	11.8	.0	.0	.0	10.6		. 3	2.3			.0	.0	3.6	
5-6	.0	1.1	4.9	.8	.0	.0	6,8		.0	.5		.0	.0	.0	.5	
7	.0	1.0	2.4	1.8	.0	.0	5,2		.0	.1	.4	.1	.0	.0	. 5	
8-9	.0	. 2	. A	.0	.0	.0	1.0		.0	.1		.0	.0	.0	. 1	
10-11	.0	.0	.0	.0	.3	.0	. 3		.0	.0			.0	.0	.0	
12	.0	.0	.0	.3	.0	.0	. 3		.0	.0		.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.0	.0	. 3		.0	.0	.0		.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3,4	23.6	23.4	3.2	.3	•0	53,8		2.8	8,2	1.7	.1	.0	.0	12.7	
												NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.9	.0		.0	.0	.0	.9	
1-2	.0	1.1	.0	.0	.0	.0	1.1		.0	. 3		.0		.0	.6	
3-4	.0	. 3	.0	.0	.0	.0	, 3		.0	.0		.0	. 0	.0	.0	
5-6	.0	. 3	.0	.0	.0	.0	, 3		.0	.0		.0		.0	.0	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0		.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0			0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0			0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	. 0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
61-70	.0	.0	.0	•0	.0	.0	.0		.0	.0		.0	000	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
TOT PCT	.0	1.6	.0	.0	.0	.0	1.6		.9	.3	.3	.0	.0	.0	1.5	92.2

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(PT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	15.5	6.7	. 8	.0	.0	.0	22.9	003
1-2	1.6	20.3	5.1	.0	.0	.0	26.9	
3-4	. 8	12.0	16.0	.0	.0	.0	28.8	
5-6	.0	2.7	8.5	. 8	.0	.0	12.0	
7	.0	1.3	4.0	1.9	.0	.0	7.2	
8-9	.0	. 3	.8	.0	.0	.0	1.1	
10-1		.0	.0	.0	.3	.0	.3	
12	.0	.0	.0	.5	.0	.0	.5	
13-1	.0	.0	.0	.3	.0	.0	.3	
17-1		.0	.0	.0	.0	.0	.0	
20-2	.0	.0	.0	.0	.0	.0	.0	
23-2	.0	.0	.0	.0	.0	.0	.0	
26-3		.0	.0	.0	.0	.0	.0	
33-4	0.0	.0	.0	.0	.0	.0	.0	
41-4	0,0	.0	.0	.0	.0	.0	.0	
49-6	0.0	.0	.0	.0	.0	.0	.0	
61-7	0.0	.0	.0	.0	.0	.0	.0	
71-8		.0	.0	.0	.0	.0	.0	
87	0	.0	.0	.0	.0	.0	.0	
		•		-				375
TOT PI	T 17.9	43.2	35.2	3,5	.3	.0	100.0	
		100						

PERIO): (QV	ER-ALL	194	9-1976	,				TABLE	19											
					PERCENT	FRE	PUENCY	OF W/	VE HEI	GHT (F	T) VS	WAVE P	ERIDO	SECON	05)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	1;	13-16	17-19	20=22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	4.4	6.4	15.0	6.8	1.7	. 0	.3		0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	250	3
6-7	.1	1.1	5.4	11.7	7.8	1.6	2.3			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	215	6
6-7	.0	.4	3.1	3.8	3.2	1.4	1.4			.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	6
10-11	.0	.7	.7	1.3	.6	. 8	.3	. (.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
12-13	.0	.0	. 8	. 4	.7	.6	.3			.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	8
	.0	.0	.0	.6	.6	.6	.1		0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
>13 INDET	4.7	1.0	. 8	. 8	1.1	.6	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	3
TOTAL	65	68	183	180	111	43	33		14	2	0	0	0	0	0	0	0	0	0	708	5
PCT	9.2	9.6	25.8	25.4	15.7	6.1	4.7	1.	2.0	,3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1907-1977 (QVER-ALL) 1870-1977

TABLE 1

AREA 0030 ANTOFAGASTA 22,2\$ 71.5W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUS BLWG SND	
N		.0	.0	.0	.0	.0	.0	0	.0	.0	3.6	.0	.0	.0	96.4
NE	10.8	.0	.0	.0	.0	.0	.0	10.8	•0	.0	.0	•0	.0	.0	89.2
E SE	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	• 0	.0	.0	100.0
	.0	1.4	.0	.0	.0		.0	1.4	. 9	.0	.0	• 0	.0	.0	97.7
S	.1	.0	1.1	.0	.0	.0	.0	1.2	.3	.0	.2	.0	.0	.0	98.3
SW	. 2	.0	3.6	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	96.2
W	.0	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	.0	.0	.0	.0	93.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	1.4	.0	2.9	.0	94.2
TOT PCT	944	.2	1.2	.0	.0	•0	.0	1.6	.4	.0	.3	•0	.2	.0	97.5

TABLE 2

DEDCEME	EDEDLIENCY	OP	WEATHED	DCCURRENCE	nv	HOLLE

			P	RECIPI	TATIO	TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	.0	.0	1.2	.0	.0	.0	.0	1.6 2.6 1.3 1.9	.8 .0 1.3	.0	.0	.0	.0	.0	97.7 96.7 96.9 97.1
TOT PCT TOT OBS:	964	•2	1.5	•0	.0	.0	•0	1,9	.5	.0	.3	.0	.2	.0	97.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KN	OTS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N.	2.1	2.6	.3	.0		.0		5.0	4.9	3.3	.0	6.2	8.1	5.9	5.6	4.1	2.9
NE	1.0	.6		.0		.3		1.7	3.6	1.0			2,3	2.7	.0	1.4	. 2
E	.9	.7	. 2	*	.0	.0		1.8	6.0	.8	.0	1.7	2.2	3.0	.0	2.3	. 2
SE	2.6	7.0	6.8	1.9	.2	.0		18.5	11.5	14.4	14.3	15.3	20.4	23.8	12.5	19.4	18.5
S	6.5	21.6	15.3	2.4	. 2	.0		46.0	10.0	49.6	61.9	45.5	36.7	41.7	59.7	48.6	51.0
SW	3.5	6.5	1.5	. 2		.0		11.8	6.6	15.3	9.5	10.6	10.1	8.2	5.6	11.8	16.7
W	1.0	.9	.1	.0	.0	.0		2.0	4.3	3.2	.0	2.8	2.2	. 6	5.6	1.6	1.5
NW	1.6	1.9	.2	.0	.0	. 3		3.7	4.6	2,5	.0	4.0	5.1	2.7	.0	3.6	4.9
VAR	.0	.0	.0	.0		.0		.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.5							9.5	.0	9,8	9.5	11.8	12.9	11.3	11.1	7.1	3.9
TOT OBS	1356	1970	1158	216	18	2	4718		8.2	784	21	871	620	665	18	1331	40B
TOT PCT	28.7	41.8	24.5	4.6		. 9		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WND DIR	0-6	7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00 03	06 09	12 15	18 21
N	3.9	1.2	:0	.0	.0		5.0	3.6	3.2	7.0	5.9	3.8
	1.5	.2							1.7	2.1	2.6	1.1
-	1.2	. 4	.1		.0		1.8	6.0	• 1	1.9	3.0	1.8
S E	5.9	7.8	4,1	.6	*		18.5	11.5	14.4	17.4	23.5	19.2
5	17.6	19.9	7.8	.5	.1		46.0	10.0	49.9	41.8	42.1	49.2
SW	7.4	3.8	.6	.1	.0		11.8	6.6	15.1	10.4	8.2	13.0
W	1.7	.3		.0	.0		2.0	4.3	3.1	2.5	.7	1.6
NW	3.0	.7	.0	.0	.0		3.7	4.6	2.5	4.5	2.6	3.9
VAR	.0	.0	,0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.5						9,5	.0	9.8	12.3	11.3	6.4
TOT OBS	2440	1615	598	59	6	4718		8.2	805	1491	683	1739
TOT PET	51.7	34.2	12,7	1.3	.1		100.0		100.0	100.0	100.0	100.0

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AUGUST

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1870-1977

TABLE 4

AREA 0030 ANTOFAGASTA 22.28 71.5W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HUUR	CALM	1-3	4-10		SPEED (48+	MEAN	PCT	TOTAL
		•								
00603	9.8	14.5	42.2	27.0	6.1	.4	.0	8.9	100.0	805
06609	12.3	20.5	41.2	22.0	3.6	. 4	.0	7.5	100.0	1491
12615	11.3	20.5	39.2	24.9	3.7	. 4	.0	7.9	100.0	683
18621	6.4	19.7	43.0	25.5	5.1	.3	.0	8.6	100.0	1739
TOT	450	906	1970	1158	216	18	U	8.2		4718
DOT		10 2	41 0	24 8	4 6	4	0		100 0	

TABLE 5

P	CT FRE			DIRFC		EIGHTHS)			PERCEN	TAGE F	CURREN	CY OF	CEILIN	B BY W	IND DI	RECTIO	04/8) ON	
WND DIR	0=2	3-4	5-7	3 8	TOTAL	CLOUD	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
		, ,	-	nascn	OBS	COVER	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	
N	.0	.1	.4	1.3		7.3	.0	.0	.0	.0	.9	.4	. 3	.0	.0	.0	.3	
NE	. 1	.0	. 1	.6		6,5	. 1	.0	.0	.1	.4	.0	.0	.0	.0	.0	. 1	
E	.6	.0	.1	. 5		4,5	.0	.0	. 1	.3	.3	.0	.0	.0	.0	.0	.6	
SE	.6	1.9	4.0	8.9		6.7	. 2	.0	. 1	2.8	6.4	2.0	. 5	.0	.0	.0	3.5	
S	11.0	5.3	12.2	28.8		5,9	. 2	. 3	. 4	8.5	22.3	6.5	1.5	.0	.0	. 1	17.6	
SW	2.5	1.3	2.7	5.6		5.5	. 2	.0	. 1	1.6	3.9	1.6	. 2	.0	.0	.0	4.6	
W	. 1	. 1	. 3	. 4		6.1	.0	.0	.0	.0	.6	.1	.0	.0	.0	.0	. 3	
NW	. 4	.0	. 5	. 6		5,5	.0	.0	.0	. 1	.4	. 3	.1	.0	.0	.0	. 5	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	. 7	1.0	5.8		6.4	.0	.0	. 1	. 9	4.3	.4	.6	.1	.1	.0	2.2	
OT OBS	116	66	147	363	692	6.0	5	2	6	99	273	78	22	1	1	1	204	692
OT PCT	16.8	9.5	21.2		100.0		.7	. 3	. 9	14.3	39.5	11.3	3.2	. 1	.1	. 1	29.5	100.0

TABLE 7

CUMULATIVE PC	T FREQ OF	SIMULT	ANEQUS	DCCL	RRENCE
OF CEILING	HEIGHT (N	H >4/8)	AND V	/5BY (NM)

				VSBY (NM)			
CFICING	 OR 	- OR	• DR	· DR	• DR	- DR	• DR	= OR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
■ NR >6500	.1	.3	.3	.3	.3	.3	.3	.3
■ MR >5000	.1	.3	.3	.3	.3	.3	.3	. 3
■ DR >3500	2.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
- DK >2000	13.3	14.7	14.7	14.7	14.7	14.7	14.7	14.7
■ DR >1000	49.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2
■ OK >600	62.7	68.8	69.1	69.1	69.1	69.1	69.1	69.1
■ DK >300	63.2	69.7	70.0	70.0	70.0	70.0	70.0	70.0
• DR >150	63.2	69.8	70.2	70.2	70.2	70.2	70.2	70.2
- DR > 0	63.5	70.5	71.0	71.0	71.0	71.0	71.0	71.0
TOTAL	444	493	496	496	496	496	496	496

TOTAL NUMBER OF OBS1 699 PCT FREQ NH <5/81 29.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

6.2 6.5 6.9 4.1 3.8 3.3 6.8 13.2 49.0 .1 780

	-	11	4

PERIOD: (PRIMARY)	1907-1977		AREA 0030 ANTO	FAGASTA
(DVER-ALL)	1870-1977	TABLE 8		71.5W

		P	FRCENT	PREC	OF WIN	D DIRE	TH VAR	VS DCC	URRENC ALUES	F VIS	IBILI	CURRENC	E DF
VSBY		N	NE	F	SE	s	SW	W	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	PCP	.0	.0	.0	. 0	.0	.0	.0	.0	.0	.0		
1/2<1		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
2<5	NO PCP	.0	.0	.0		.4	.2	.0	.0	.0	.1	. 7	
	TOT &	.0	.0	.0	•	.4	.2	.0	.0	.0	.1	.7	
	PCP	.0	.0	.0	.1	.4	.4	.0	.0	.0	.0	1.0	
5<10	NO PCP	1.5	.0	.0	1.3	4.8	1.3	. 5	. 3	.0	1.5	11.0	
	TOT \$	1.5	.0	,0	1.4	5.2	1.7	. 5	. 3	.0	1.5	11.9	
	PCP	.0	.1	.0	.1	.3		.1	.0	.0	.0	.6	
10+	NO PCP	1.4	.9	1.0	13.5	51.9	9.8	1.3	1.3	.0	5.6	86.7	
	TOT %	1.4	1.0	1.0	13.6	52.2	9.8	1.4	1.3	.0	5.6	87.3	
	TOT 085												940
	TOT PCT	3.0	1.0	1.0	15.1	57.8	11.8	1.6	1.6	.0	7.2	100.0	

TABLE 9

VSBY (NM)	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
(NM)	KTS 0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	462
1/2	4-10	.0	.0	.0	.0	.0	.o	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	224	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	•0	•0	.0	.0	.0	.0	.0	.0	•0	
	0-3	.0	•0	.0	.0	.1	.2	.0	.0	.0	.2	.5	
2<5	4-10	.0	• 0	.0		.2	.0	.0	.0	.0		.2	
	11-21	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0		.3	.2	.0	.0	.0	.2	.7	
	0-3	. 8	• 1	.0	.2	.6	.6	.2	.2	.0	1.5	4.2	
5<10	4-10	.7	.0	.0	.7	3.0	1.0	.0	. 3	.0		5.7	
	11-21	.0	• 0	.0	. 2	. 8	.2	.0	.0	.0		1.3	
	22+	.0	.0	.0	.1	.3	.0	.0	.0	.0		.4	
	TOT \$	1.6	• 1	.0	1.2	4.7	1.8	.2	.5	.0	1.5	11.6	
*****	0-3	.7	.4	.1	1.2	4.7	1.7	.3	.6	.0	7.1	16.8	
10+	4-10	1.6	.9	.5	5.1	23.6	6.4	1.5	1.0	.0		40.7	
	11-21	.3	• 1	.2	4.6	18.2	2.2	.0	.0	.0		25.6	
	22+	.0	.0	.0	9	3.4	3	.0	.0	.0		4.7	
	TOT %	2.7	1.4	.8	11.8	49.9	10.6	1.8	1.6	.0	7.1	87.7	
,	nt ons												1244
1	TOT PET	4.3	1.5	. 8	13.0	54.9	12.6	2.0	2.1	.0		100.0	

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AUGUST

PERIOD:	(PRIMARY)	1907-1977
	(DVER-ALL)	1870-1977

TABLE 10

AREA 0030 ANTOFAGASTA 22,25 71.5W

PERCENT	FREQUENCY	OF	CEILING	HEIGHTS	(FEET, NH	>4/8)	AND
	DECLIE	REN	NCE DE NI	4 45 /A DV	HOUR		

HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
E0300	.5	. 5	.5	16.3	32.1	11.6	2.1	.0	. 0	.0	63.7	36.3	190
90360	.0	.0	•0	14.8	43.4	9.3	2.7	.0	.0	.0	70.3	29.7	182
12615	.6	.0	1.7	14.4	45.9	14.9	4.4	.6	.0	.6	82.9	17.1	181
18821	1.9	.6	1.2	13.0	33.3	8.6	3.1	.0	.6	.0	62.3	37.7	162
TOT PCT	.7	.3	.8	105 14.7	277	80	3.1	.1	.1	.1	500	215	715 100.0

TABLE 11

TABLE 12

		PERCENT	FREQUEN	CY VSBY	(NM)	8Y HOUR		CUMULAT	CEILIN	FREQ	OF RAN	GES OF	VSBY (NM)	ANDIDE
(GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GHT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.0	.0	.0	1.3	9.1	89.6	317	00603	.5	1.6	18.1	46.3	35.6	188
90360	.0	.0	.0	.5	13.7	85.8	409	06609	.0	.0	15.3	57.1	27.7	177
12615	.0	.0	.0	.4	11.4	88.2	263	12815	.6	2.3	17.0	66.5	16.5	176
18621	.0	.0	.0	.7	12.4	86.9	275	18821	1.9	3.8	17.1	46.8	36.1	158
PCT	.0	.0	.0	.7	149	1106	1264 100.0	TOT PCT	.7	13	118	379	202	699

TABLE 13

	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY 8	Y TEMP		-
TEMP F	0-29	30-39	40-49	50-50	60-69	70-79	80-89	90-100	TOTAL	FREG
75/79	.0	.0	.0	.0	.1	.0	.0	.0		1
70/74	.0	.0	.0	.0		.i	, o	.0	2	
65/69	.0	.0	•0		. 8	1.8	. 2	. 4	31	3.7
60/64	.0	.0	.0	. 8	8.5	20.3	7.5	1.8	326	39.0
55/59	.0	.0	.0	1.0	4.8	25.0	18.5	5.6	459	54.9
50/54	.0	.0	.0	.0	.0	. 2	. 8	. 7	15	1.8
TOTAL	0	0	0	19	122	397	227	71	836	100.0
PCT	-0	- 0	-0	2 3	14 6	47 5	29 2	0 6	0-0	

TABLE 1

	PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY T	EMP		
N	NE	E	SE	S	SW	W	NW	VAR	CALM	
.0	.0	.1	.0	.0	.0	.0	.0	- 0	.0	
.0	.1	.0		.3	.0	.0	.0	.0	.0	
.0	.0	.1	.4	2.2	.2	.0	. 2	.0	.5	
1.3	. 1	. 8	7.4	21,1	4.4	. 8	.6	.0	2.5	
1.8	.5	.3	8.2	30.1	6.1	.8	1.0	.0	6.0	
.2	.0	.0	.0	1.3	.3	.0	.0	.0	.0	
3,3	.7	1.4	16.0	55.0	11.1	1.6	1.9	.0	9.0	

TARLE 15

HEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR
HOUR MAX 99% 95% 50% 5% 1% MIN MEAN TOTAL
DBS
00603 77 66 63 59 55 54 50 50.9 805
06609 74 64 62 38 54 52 50 57.9 1488
12615 73 64 62 58 54 52 50 58.2 680
12615 73 64 65 59 55 54 50 59.3 4648
TOTAL
DBS
00609 74 64 62 58 54 52 50 58.2 680
12615 73 66 65 59 55 53 50 59.3 4648

TABLE 16

	PERC	ENT PRE	MOFUCA	UF KELA	ILIVE H	UMIDITY	BY HOU	3
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	.0	.5	12.8	50.9	29.4	6.4	78	218
90300	.0	4.0	10.5	43.1	33.5	8.9	78	248
15612	.0	1.0	13.1	44.7	28.2	13.1	79	206
18621	.0	3.3	22.7	51.4	16.0	6.6	75	181
TOT	0	19	122	403	234	75	78	853

AUGUST

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1870-1977

TABLE 17

AREA 0030 ANTOFAGASTA 22.25 71.5W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	49	53	57	61	65	69	TOT	W	WO
TMP DIF	52	56	60	64	68	72		FOG	FOG
14/16	.0	.0	.0	.0	.2 .3 .7 .0 .3 .7	.0	2	.0	1.0
9/10	.0	.1	. 1	.3	. 3	.1	9	.0	1.0
7/8	.0	. 1	.1	.0	. 7	.1	11	.0	1.3
. 6	.0	. C	.1	. 1	.0	. 1	3	.0	. 3
5	.0	.0	.1	.7	. 3	.0	10	.0	1.1
- 4	.0	.0	:1	1.0	.7	.0	11 3 10 17	.0	1.1
3	.0	.0	.7	. 7	1.1	.0	22	.0	2,5
2	.0	. 1	1.6	3.0	. 5	.0	45	.0	5.1
1	.0	. 6	3.4	3.1	. 3	.0	65	.0	7.4
0	.0	.0	8.1	6.9	.0	.0	143	.0	16.3
6 5 4 3 2 1 0	.0	1.0	10.0	5.4	. 1	.0	145	. 1	16.4
-2	.0	1.4	11.2	3.0	.0	.1	137	.1	15.5
-3	.0	2.3	8.8	2.3	.0	.0	117	.0	15.5
-4	.0	1.8	6.5	.7	.0	.0	79	.0	9.0
-5	.0	1.9	2.5	. 2	.0	.0	41	.0	4.7
-6	. 2	. 6	1.0	.0	.0	.0	16	.0	1.8
-7/-8	.2	. 6	. 8	.0	.0	.0	14	.1	1.5
-9/-10	.0	. 1	.1	.0	.0	.0	2	• •	.2
TOTAL	4	••	487		36	• •	•	.0	875
	7	104	701	240		5	878	,	313
PCT	.5	11.8	55.5	27.3	4.3	.6	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1977

TABLE 1

				• (T FREQ	DF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)	
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	. ?	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	. 3	.0	.0	.0	.3		.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0		.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	. C	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	• 0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86 87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.3	•0	.0	.0	. 3		.0	. 4	.0	.0	.0	.0	.9
				E								SE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0		.4	. 4	.0	.0	:0	.0	.8
1-2	.0	.3	.0	.0	.0	.0	.3		.0	3.9	. 8	.0	.0	.0	4.7
3-4	.0	.0	.0	.0	.0	.0	.0		.0	2.5	.5	.3	.0	.0	3.4
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.4	3.0	.4	.0	.0	3.8
7	.0	.0	.5	.0	.0	.0	. 5		.0	.0	1.1	1.1	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	. 2	.0	.0	. 4
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	•0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	7.2	.0	.0	000000000000000000000000000000000000000	.0	.0
TUT PCT	.0	.3	.5	.0	.0	.0	. 9		.4	1.2	5.7	2.0	.0	.0	15.2

2 8

									AUGUST							
PERIOD:	COVE	R-ALL)	1963-	1977				TABLE	18 (CONT)				AREA		ANTOFAC	SASTA
				0.2	T 5950		Spech		AND DIREC		/EDS/16 6	EA HETO	HTC /FT	,		
					1 FAEG	OF WIND	SPEED	(4157	AND DIREC	I LON V	EK303 3	SEA HEIG	mis (r)			
HGT	1-3	4-10	11-21	\$ 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.8	4.6	.0	.0	.0	.0	6.4		1.3	1.3	.0	.0	.0	.0	2.6	
1-2	.5	10.5	4.2	.0	.0	.0	15.2		.7	2.6	.0	.0	. 0	.0	3.3	
3-4	. 3	5.9	12.7	1.8	.0	.0	20.7		.0	.4	1.7	.1	.0	.0		
5-6	.0	1.1	5.6	1.2	.0	.0	7.9		.0	. 1	.1	.0	.0	.0	.2	
7	.0	.9	3.2	2.3	.0	.0	6,3		. 3	.1	.2	.4	.0	.0	.9	
8-9	.0	.0	1.3	1.7	.3	.0	3.4		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	. 3	.3	.0	.0	. 6		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	. 3	.0	.0	, 3		.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	. 0	.0		
26-32	.0	. 0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		• 0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	22.9	27.4	7.6	.3	.0	60.9		2.3	4.4	2.0	.8	.0	.0	9.5	
				w								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.0	.0	.0	.0	.0	. 2		.3	.3	.0	.0	.0	.0	.6	
1-2	.0	. 5	.0	.0	.0	.0	. 5		.0	.6	.0	.0	.0	.0	.6	
3-4	.0	. 3	.0	.0	.0	.0	. 3		.0	. 3	.0	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
7	.0	.0	.0	.0	.0	.0	. 0		.0	.0	.0	.0	. 0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0		• 0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0		
49-60	.0	.0	•0	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0		
61-70	.0	.0	• • •	.0	.0	.0	.0		•0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		•0	.0	.0	.0	:0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	1.3	.0	.0	:0	.0		
TOT PCT	. 2	.9	.0	•0	.0	.0	1.1		.,	1.3	.0	.0	.0	.0	1.6	90.3

		WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
н	IGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
	:1	15.3	6.7	.0	.0	.0	.0	22.0	003
	-2	1.2	19.0	5.2	.0	.0	.0	25.4	
	-4	.3	9.2	14.7	2.1	.0	.0	26.3	
	-6	.0	1.5	8.6	1.5	.0	.0	11.6	
	7	.3	, 9	4.9	3.7	.0	.0	9.8	
A	-9	.0	.0	1.5	1.8	.3	.0	3.7	
	-11	.0	.0	.3	.,3	.0	.0	.6	
	2	.0	.0	.0	.0	.0	.0	.0	
	-16	.0	.0	.0	.6	.0	.0	.6	
	-19	.0	.0	.0	,0	.0	.0	.0	
	-22	.0	.0	.0	.0	.0	.0	.0	
	-25	.0	.0	.0	.0	.0	.0	.0	
	-32	.0	.0	.0	.0	.0	.0	.0	
	-40	.0	.0	.0	.0	.0	.0	.0	
	-48	.0	.0	.0	.0	.0	.0	.0	
	-60	.0	.0	.0	.0	.0	.0	.0	
61	-70	.0	.0	.0	.0	.0	.0	.0	
71	-86	.0	.0	.0	.0	.0	.0	.0	
	87+	.0	.0	.0	.0	.0	.0	.0	
									327
TOT	PCT	17.1	37.3	35.2	10.1	.3	.0	100.0	
		7 (arch 10) (4)							

PERIOD	: (DV	ER-ALL	194	9-1977					TABLE	19											
					PERCEN	FRE	QUENCY	QF W	AVE HET	GHT (F	T) VS	WAVE P	ERIOD	(SECON	051						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8=9	10-11	1	2 13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	3.0	6.1	11.3	4.8	1.5	1.2	.0		0 .2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	169	3
6-7	.0	.7	4.7	10.1	6.8	3.8					.0	.0			.0	.0	.0	.0	.0	167	6
8-9	.0	.7	2.8	4.7	6.0	3.2				.3	.0	.3			.0	.0	.0	.0	.0	123	7
10-11	.0	.5	. 2	1.3	1.3	1.3	1.2		0 .0	.0	.0	.0			.0	.0	.0	.0	.0	35	7
10-11	.0	.0	.3	1.2	. 3	.7	.5		8 .2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	8
>13	.0	.0	.0	.0	.3	.5	.5				.0	.0	.0		.0	.0	.0	.0	.0	17	11
>13 INDET	4.0	1.5	1.7	1.7	1.5	.7	.0				.0	.0	.0	.0	.0	.0	.0	.0	.0	67	3
TOTAL	42	57	126	143	107	68	29		9 16		0	2	1	0	0	0	0	0	0	602	5
PCT	7.0	9.5	20.9	23.8	17.8	11.3	4.8	1.			.0	.3	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1906-1977 (DVER-ALL) 1868-1977

TABLE 1

AREA 0030 ANTOFAGASTA

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	PAIN	DRZL	FRZG PCPN	SNOW	DTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
N	.0	.0	4.7	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	95.3
NE	.0	.0	12.9	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0	.0	87.1
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.6	.0	.0	.0	.0	.0	.6	. 8	.0	.0	.0	.0	.0	98.6
S	.1	.0	.5	.0	.0	.0	.0	. 6	.3	.0	. 8	.0	.3	.0	98.1
SW	. 2	.0	.0	.0	.0	.0	.0	.2	.0	.0	2.0	.0	.2	.0	97.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	.1	. 1	.5	.0	.0	.0	.0	.7	.3	.0	.7	•0	.2	.0	98.1

TABLE 2

PERCENT	FREQUENCY	OF	WEATHER	DCCURRENCE	BY	HOUR

			P	RECIPI	TATION	TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUST BLWG SNOW	
00603 06609 12615 18621	.0	.0	.8 1.0 .0	.0	.0	.0	.0	1.3	.0 .3 .8	.0	.8 .3 .4 1.2	.0	.8	.0	97.6 97.7 98.4 98.3
TOT PCT TOT OBS:	1044	.1	.5	.0	.0	.0	.0	.7	.3	.0	.7	•0	.4	.0	98.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WIN	D SPE	ED (KND	TSI								HOUR	(GMT)			
WND DIR	0-3			22-33		48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	1.4	1.7	. 1		.0	.0		3.3	4.7	1.8	7.4	3.9	6.4	4.4	.0	1.9	1.5
NE	.6	.6			.0	.0		1.2	4.5	.6	.0	.9	2.6	2.0	.0	1.1	.5
E	. 8	. 0	.3		.0	.0		2.0	6.1	1.4	.0	1.9	2.4	3.4	.0	1.8	1.0
E SE	2.7	7.4	7.3	1.1	.0	.0		18.5	10.5	17.5	9.3	16.4	16.4	21.4	21.7	19.8	19.7
S	8.2	25.4	14.0	1.7		.0		49.3	8.9	53.3	65.7	47.0	41.2	45.1	55.0	52.8	55.5
SW	3.2	6.9	1.2	.1	.0	.0		11.3	6.3	14.0		10.6	7.6	9.5	16.7	12.5	13.4
W	1.3	.7	.0	.0	.0	.0		2.0	3.3	2,3	.0	2.2	2.3	1.8	.0	1.5	2.0
NW	1.4	1.4			.0	.0		2.8	4.0	1.7	3.7	4.6	5.2	1.4	.0	1.9	2.3
VAR	.0	.0	.0	.0	.0	.0		.0	•0	.0	.0	.0	.0	.0	.0	.0	. 0
CALM	9.5	• •	••	••	••	••		9.5	.0	7.4	7.4	12.5	15.7	11.1	6.7	6.6	4.0
TOT OBS	1565	2422	1238	158	,	0	5384		7.6	846	27	1018	745	791	15	1469	473
TOT PCT	29.1	45.0	23.0		•	.0	2304	100.0			100.0			100.0			

TABLE 3A

WND DIR	0-6	WIND 7-16	SPEED 17-27	(KNDTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00	HDU5 06	12	18
						085	FREQ	300	03	09	15	21
N NE	2.6	.6	:	:0	.0		3.3	4:7	1.9	5.0	4.3	1.9
	1.4	.5	.1		.0		2.0	6.1	1.3	2.1	3.3	1.6
SE	6.2	8.4	3,6	.3	.0		18.5	10.5	17.3	16.4	21.4	19.8
5	21.3	21.9	5.9	.2	.0		49.3	8.9	53.7	44.6	45.3	53.4
SW	7.1	3.9	, 3		.0		11.3	6.3	13.8	9.4	9.6	12.7
W	1.9	.1	.0	.0	.0		2.0	3,3	2.2	2.2	1.8	1.6
NW	2.5	.3		.0	.0		2.8	4.0	1.7	4.9	1.4	2.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.5						9.5	.0	7.4	13.8	11.0	6.0
TOT DBS	2883	1930	540	31	0	5384		7.6	873	1763	806	1942
TOT PCT	53.5	35.8	10.0	.6	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER	

PERIOD:	(PRIMARY)	1906-1977
	(OVER-ALL)	1868-1977

AREA 0030 ANTUFAGASTA 22.15 71.4W

PERCENTAGE	FREDUENCY	nF	WIND	SPEED	84	HOUR	(CMT)

					SPEED (PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	DBS
00603	7.4	13.7	49.3	25.3	4.2	.0	.0	8.5	100.0	873
06609	13.8	22.4	43.1	18.4	2.3	.0	.0	6.6	100.0	1763
12615	11.0	22.8	41.6	22.7	1.9	.0	.0	7.0	100.0	806
18621	0.0	18.1	40.2	26.2	3.4	.1	.0	6.3	100.0	1942
TUT	514	1051	2422	1238	158	1	0	7.6	-	5384
PCT	9.5	19.5	45.0	23.0	2.9		. 0		100.0	

TABLE 5

TABLE 6

													ADEE O					
P	CT FRE			DO DIRFO		(EIGHTHS)							CEILIN NH 45/					
WND DIR	0=2	3-4	5-7	8 & 03860	TOTAL OBS	CLOUD COVER	000	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	
N	.3	.1	.3	1.4		6,4	.0	.0	.1	.1	1.0	.4	.0	.0	.0	.0	.5	
NE	.0	.0	.2	. 8		7.8	.0	.0	.0	. 5	.2	.2	.0	.0		. 0	.0	
E	.0	.0	.0	.7		8.0	.0	.0	.0	.0	.5	.1	.0	.0	.1	.0	.0	
SE	.6	1.0	3.0	11.7		7.2		. 2	.4	2.8	6.5	3.2	. 5	.0	.2	.0	2.5	
S	7.0	5.9	13.2			6.4	.2	. 2	.1	7.7	21.8	12.1	3,3	. 8	.1	.5	15.3	
SW	1.2	.6	2.1	6.4		6.6		.0	.3	1.3	4.5	1.7	. 2		.0	.1	2.1	
W	.1	.1	.3	. 4		6,2	.0	.0	.1	.2	.1	. 2	.0	.0	.0	.0		
NW	. 1	.0	.3			7.3	.0	.0	. 2	.2	. 5	.2	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	. 1	.2	. 9	4.4		7.4	.0	.0	.0	1.1	1.8	1.7	.0	.0	.0	.0	1.0	
TOT OBS	77	65	165	510	817	6,6	2	4	9	114	301	161	33	7	3	. 5	178	817
TOT PCT	9.4	8.0	20.2	62.4	100.0		,2	.5	1.1	14.0	36.8	19.7	4.0	. 9	.4	.6	21.8	100.0

TABLE 7

CUMULATIVE	PCT FR	E0 OF	SIMULTANEOUS	DCCURRENCE
			4 34/8) AND V	

					VSBY (NH	1)			
6	EILING	. DR	. DR	. 08	• OR	. OR	- OR	. DR	= OR
(FEFTI	>10	>5	>2	>1	>1/2	>1/4	>5UYD	>0
-	>4500	.6	.9	.9	.9	.9	.9	.9	.9
OR	>5000	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8
OR	>3500	5.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7
OR	>2000	22.7	25.0	25.1	25.1	25.1	25.1	25.1	25.1
OK	>1000	56.7	62.4	62.8	62.8	62.8	62.8	62.8	62.8
nK.	>600	68.7	76.0	76.4	76.4	76.4	76.4	76.4	76.4
OR	>300	68.7	77.1	77.5	77.5	77.5	77.5	77.5	77.5
OK	>150	69.0	77.6	77.9	77.9	77.9	77.9	77.9	77.9
	TOTAL	582	77.6	77.9	77.9	78.1	78.1	78.1 658	78 - 1

TOTAL NUMBER OF OBSI 843

PCT FREQ NH <5/81 21.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	DBS
5.4	2.7	4.2	4.5	4.2	3.7	7.0	10.7	57.3	.2	924

				R

AREA 0030 ANTOFAGASTA 22.15 71.4W

		PE	RCENT	PREC	OF WIN	D DIRE	CTION V	S DCC	ALUES I	F VIS	IBILI	URRENC	E OF
VSBY (NM)		N	NE	E	SE	s	SW	w	NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1		.0	.0	.0	.0	. 1		.0	.0	.0	.0	. 1	
	TOT &	.0	.0	.0	.0	.1	•	.0	.0	.0	.0	.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT \$.0	.0	.0	.0	.0	• 0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	NO PCP	.0	.0	.0		.3	.0	.0	.0	.0	.0	.4	
	TOT \$.0	.0	.0		. 3	.0	.0	.0	.0	.0	.4	
	PCP	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.3	
5<10	NO PCP	.2	. 1	.0	2.2	7.5	1.3	. 1	. 1	.0	.9	12.4	
	TOT \$. 2	. 2	.0	2.2	7.7	1.3	. 1	• 1	.0	.9	12.7	
	PCP	.1	.0	.0	13.7	.2		.0	.0	.0	.0	.4	
10+	NO PCP	1.9	.6	.7	13.7	52.7	9.6	. 8	1.0	.0	5.5	86.4	
	TOT %	2.0	.6	.7	13.8	52.9	9.6	. 8	1.0	.0	5.5	86.8	
	TOT OBS												1005
	TOT PCT	2.1	. 8	.7	10.0	61.0	11.0	. 9	1.1	.0	6.4	100.0	

TABLE 9

			,	PERCEN	T FREG	OF WI	ND DIR	ECTION S OF V	VS WI	ND SPE	ED		
VSBY (NM)	SPD	N	NE	ε	SE	s	SW	W	NW	VAR	CALM	рСТ	TOTAL
	0-3	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.1		.0	.0	.0		. 1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0	.0	• 1		.0	.0	.0	.0	.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.1		.0	.0	.0	.0	. 2.	.2	
2<5	4-10	. 2	.0	.0	.0	.1	.0	.0	.0	.0		.2	
	11-21	.0	.0	.0		.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT *	.5	•0	.0	•1	. 3	.0	.0	.0	.0	.1	.6	
	0-3	.1	.0	.0	.1	.9	.3	.1	.1	.0	1.8	3.3	
5<10	4-10	.1	.2	.0	. 8	4.4	1.1	.0	. 1	.0		6.6	
	11-21	.0	.0	.0	. 8	2.3	.3	.0	.0	.0		3.4	
	22+	.0	• 0	.0	.1	.5		.0	.0	.0		.6	
	TOT %	.2	• 2	.0	1.7	8.0	1.6	.1	.2	.0	1.8	13.8	
	0-3	.5	.1	.2	.7	3.9	1.2	.5	.2	.0	7.3	14.8	
10+	4-10	1.1	.3	.3	5.2	24.8	7.4	. 9	. 8	.0		40.7	
	11-21	.1	.0	. 2	5.6	19.4	2.0	.0	. 1	.0		27.4	
	22+	.1	.0	.0	.5	1.9		.0	.0	.0		2.6	
	TOT \$	1.7	.4	.6	12.0	50.0	10.8	1.4	1.1	.0	7.3	85.5	
	OT PET	2.1	.6	.6	13.9	58.4	12.4	1.5	1.3	.0	9,2	100.0	1281

SEPTEMBER

DEDICO.	(PRIMARY)	1004 1075
PER LUU.	(FRIMART)	1906-1977
	I DIVER - ALL I	1060 1077

TABLE 10

AREA 0030 ANTOFAGASTA 22.15 71.4W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8)	AN
--	----

HOUR (GMT)	000	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
00603	.0	.0	1.4	10.6	35.3	18.8	3.4	1.0	.0	.5	71.0	29.0	207
06609	•0	.0	.9	11.0	42.0	16.0	4.1	.5	.0	.0	74.4	25.6	219
12615	.0	. 9	.9	17.4	36.6	24.4	4.2	.9	.9	1.4	87.8	12.2	213
18621	.9	. 9	.9	14.7	34.6	18.0	3.7	.9	.5	.5	75.6	24.4	217
TOT	2	4	9	115	318	165	33	7	3	5	661	195	856

TABLE 11

TABLE 12

		PERCENT	FREQUENC	Y VS8Y	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.0	.0	.3	.3	14.8	84.5	310	00803	.0	1.5	12.7	58.8	28.4	204
06609	.0	.0	.0	.5	15.3	84.3	426	06809	.0	.9	12.0	63.1	24.9	217
12615	.0	.0	.0	.7	12.0	87.3	283	12615	.0	1.9	19.3	68.9	11.8	212
18621	•0	.3	.0	1.0	12.5	86.2	297	18821	,5	2.4	18.6	58.6	22.9	210
TOT PCT	.0	.1	.1	.6	182	1124	1316	TOT	.1	14	132	526	185	843

TABLE 13

TABLE 14

ADLE 19												1400							
PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP TOTAL PCT											PERCE	NT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY TI	EMP	
0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.2	.1	.1	.0	4	.4	.1	.0	.0		.3	.0	.0	.0	.0	.0
.0	.0	.0	.1	.7	1.2	.6	.2	25	2.8	.0	.0	.0	. 2	1.4	.4	. 3	. 1	.0	. 3
.0	.0	.0	.7	11.8	18.0	10.8	2,1	393	43.3	.4	.3	.4	10.2	25.5	3.0	.6	. 7	.0	2.2
.0	.0	.0	.1	5.2	23.6	19.4	4.0	474	52.3	1.2	.4	.1	6.9	33.3	6.7	.4	. 5		2.8
.0	.0	.0	.0	.1	.2	.7	. 2	11	1.2	.0	.0		. 1	. 9	. 2	.0	.0		.0
0	0	0	8	163	391	286	59	907	100.0			-101	-						
.0	.0	.0	.9	18.0	43.1	31.5	6,5			1.7	. 8	. 5	17.4	61.4	10.3	1.3	1.3	.0	5.3
	0-29 .0 .0 .0 .0	0-29 30-39 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	0-29 30-39 40-49 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PERCENT FREQUENCY UF R 0-29 30-39 40-49 50-59 .0 .0 .0 .0 .1 .0 .0 .0 .7 .0 .0 .0 .7 .0 .0 .0 .0	PERCENT FREQUENCY OF RELATIVE 0-29 30-39 40-49 50-59 60-69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PERCENT FREQUENCY OF RELATIVE HUMI 0-29 30-39 40-49 50-59 60-69 70-79 .0 .0 .0 .0 .1 .7 1.2 .0 .0 .0 .7 11.8 18.0 .0 .0 .0 .1 5.2 23.6 .0 .0 .0 .0 .1 5.2 23.6 .0 .0 .0 .0 .1 5.2 23.6	PERCENT FREQUENCY OF RELATIVE HUMIDITY B' 0-29 30-39 40-49 50-59 60-69 70-79 80-89 .0 .0 .0 .0 .1 .7 1.2 .6 .0 .0 .0 .7 11.8 18.0 10.8 .0 .0 .0 .1 5.2 23.6 19.4 .0 .0 .0 .0 .1 2. 7 .0 .0 .0 .1 3.9 23.6 19.4 .0 .0 .0 .0 .1 3.9 23.6 19.4	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 .0 .0 .0 .1 .7 1.2 .6 .2 .0 .0 .0 .7 11.8 18.0 10.8 2.1 .0 .0 .0 .1 5.2 23.6 19.4 4.0 .0 .0 .0 .1 5.2 23.6 19.4 4.0 .0 .0 0 8 163 391 286 59	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS .0 .0 .0 .0 .1 .7 1.2 .6 .2 25 .0 .0 .0 .7 11.8 18.0 10.8 2.1 393 .0 .0 .0 .1 .2 23.0 19.4 40 474 .0 .0 .0 .0 .1 .2 .7 .2 11 .0 .0 .0 .0 8 163 391 286 59 907	PERCENT FREQUENCY UF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ .0 .0 .0 .0 .1 .7 1.2 .6 .2 25 2.6 .0 .0 .0 .0 .7 11.8 18.0 10.8 2.1 393 43.3 .0 .0 .0 .0 .1 5.2 23.0 19.4 4.0 474 52.3 .0 .0 .0 .0 .1 5.2 23.0 19.4 5.0 19.4 10.8 21.3 20.0 0.0 0.0 0.0 1.0 1.2 .7 .2 11 1.2 0 0 0 8 103 391 286 59 907100.0	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEHP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ N .0 .0 .0 .0 .1 .7 1.2 .6 .2 .25 2.6 .0 .0 .0 .0 .0 .7 11.8 18-0 10.8 2.1 393 43.3 .4 .0 .0 .0 .0 .1 5.2 23.6 19.4 4.0 474 52.3 1.2 .0 .0 .0 .0 .0 .1 5.2 23.6 19.4 4.0 474 52.3 1.2 .0 .0 .0 .0 .0 .1 5.3 391 28.5 59 907 100.0	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEHP 0-29 30-39 40-49 50-59 60-69 70-79 80-69 90-100 DBS FREQ N NE .0 .0 .0 .0 .1 .7 1.2 .6 .2 .25 2.6 .0 .0 .0 .0 .0 .7 11.8 18-0 10.8 2.1 393 43.3 .4 .3 .0 .0 .0 .0 .1 5.2 23.6 19.4 40. 474 52.3 1.2 .4 .0 .0 .0 .0 .1 1.2 .7 .2 11 1.2 .0 .0 .0 0 8 163 391 286 59 907 100.0	PERCENT FREQUENCY UF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 D85 FREQ .0 .0 .0 .0 .1 .7 1.2 .6 .2 25 2.6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .1 1.8 18.0 10.8 2.1 393 43.3 .4 .3 .4 .0 .0 .0 .0 .0 .1 5.2 23.6 19.4 .0 .4 476 52.3 1.2 .4 .1 .0 .0 .0 .0 .0 .0 .0 .1 5.2 23.6 19.4 .0 .4 476 52.3 1.2 .4 .1 .0 .0 .0 .0 .0 .0 .0 .0 .1 2 .7 .2 11 1.2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PERCENT FREQUENCY UF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ .0 .0 .0 .0 .1 .7 1.2 .6 .2 25 2.6 .0 .0 .0 .2 .0 .0 .0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PERCENT FREQUENCY UF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ .0 .0 .0 .0 .1 .7 1.2 .6 .2 25 2.8 .0 .0 .0 .2 1.4 .0 .0 .0 .0 .7 11.8 18.0 10.8 2.1 393 43.3 .4 .3 .4 10.2 25.5 .0 .0 .0 .0 .1 5.2 23.0 19.4 4.0 474 52.3 1.2 .4 1.6.9 33.3 .0 .0 .0 .0 .0 .1 .2 .7 .2 11 1.2 .0 .0 .0 .0 .1 .9 .0 .0 .0 .0 .1 .9 .0 .0 .0 .0 .1 .9 .0 .0 .0 .0 .1 .9 .0 .0 .0 .0 .1 .9 .0 .0 .0 .0 .1 .9 .0 .0 .0 .0 .1 .9 .0 .0 .0 .0 .1 .9 .0 .0 .0 .0 .1 .9	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ .0 .0 .0 .0 .1 .7 1.2 .6 .2 25 2.6 .0 .0 .0 .2 1.4 .4 .4 .3 .4 10.2 25.5 3.0 .0 .0 .0 .1 5.2 23.6 19.4 4.0 474 52.3 1.2 .4 1.6 .9 33.3 6.7 .0 .0 .0 .0 .1 .2 .7 .2 11 1.2 .0 .0 .7 11.8 18.0 10.8 2.1 19.9 43.9 .4 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .0 .0 .0 .0 .1 .9 .2 .2 .5 .5 .0 .0 .0 .0 .0 .1 .2 .7 .2 11 1.2 .0 .0 .0 .0 .1 .9 .2 .2 .5 .5 .0 .0 .0 .0 .0 .1 .2 .7 .2 11 1.2 .0 .0 .0 .0 .1 .9 .2 .2 .5 .5 .0 .0 .0 .0 .0 .1 .2 .7 .2 .11 1.2 .0 .0 .0 .0 .1 .9 .2 .2 .5 .5 .0 .0 .0 .0 .0 .1 .2 .7 .2 .11 1.2 .0 .0 .0 .0 .1 .9 .2 .2 .5 .5 .0 .0 .0 .0 .0 .1 .2 .7 .2 .11 1.2 .0 .0 .0 .0 .1 .9 .2 .2 .5 .0 .0 .0 .0 .1 .9 .2 .2 .5 .5 .0 .0 .0 .0 .0 .1 .9 .2 .2 .5 .5 .0 .0 .0 .0 .0 .1 .9 .2 .2 .5 .5 .0 .0 .0 .0 .0 .1 .9 .2 .2 .5 .5 .0 .0 .0 .0 .0 .1 .9 .2 .2 .5 .5 .0 .0 .0 .0 .0 .1 .9 .2 .2 .5 .5 .0 .0 .0 .0 .0 .1 .9 .2 .5 .5 .5 .0 .0 .0 .0 .0 .1 .9 .2 .5 .5 .5 .0 .0 .0 .0 .0 .1 .9 .2 .5 .5 .5 .0 .0 .0 .0 .0 .1 .9 .2 .5 .5 .5 .0 .0 .0 .0 .0 .0 .1 .9 .2 .5 .5 .5 .0 .0 .0 .0 .0 .0 .0 .1 .9 .2 .5 .5 .5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	PERCENT FREQUENCY UF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ .0 .0 .0 .0 .1 .7 1.2 .6 .2 25 2.8 .0 .0 .0 .2 1.4 .4 .3 .0 .0 .0 .0 .0 .7 11.8 18.0 10.8 2.1 393 43.3 .4 .3 .4 10.2 25.5 3.0 .6 .0 .0 .0 .0 .1 5.2 23.6 19.4 4.0 474 52.3 1.2 .4 1 6.9 33.3 6.7 .4 .0 .0 .0 .0 .0 .1 1.2 .7 .2 11 1.2 .0 .0 .0 .0 .0 .1 .9 .2 .0 .0 .0 .0 .0 .1 .2 .7 .2 11 1.2 .0 .0 .0 .0 .1 .9 .2 .0 .0 .0 .0 .1 .9 .2 .0	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ N NE E SE S SW W NW 0 .0 .0 .0 .1 .7 1.2 .6 .2 25 2.8 .0 .0 .0 .2 1.4 .4 .3 .1 0 .0 .0 .0 .7 11.8 18.0 10.8 2.1 393 43.3 .4 .3 .4 10.2 25.5 3.0 .6 .7 .0 .0 .0 .0 .1 5.2 23.6 19.4 4.0 474 52.3 1.2 4 .1 6.9 33.3 6.7 .4 .5 0 .0 .0 .0 .1 2 .7 .2 11 1.2 .0 .0 .0 .0 .1 1.9 .2 .0 .0 0 0 0 8 163 391 286 59 907 100.0	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 DBS FREQ N NE E SE S SM W NM VAR .0 .0 .0 .0 .1 .7 1.2 .6 .2 25 2.8 .0 .0 .0 .2 1.4 .4 .3 .1 .0 .0 .0 .0 .0 .1 .7 11.8 18.0 10.8 2.1 393 43.3 .4 .3 .4 10.2 25.5 3.0 .6 .7 .0 .0 .0 .0 .0 .1 5.2 23.6 19.4 4.0 4.0 474 52.3 1.2 .4 .1 6.9 33.3 6.7 .4 .5 .0 .0 .0 .0 .0 .0 .0 .0 .1 .2 .7 .2 11 1.2 .0 .0 .0 .0 .0 .1 .9 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

TABLE 15
MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

TABLE 16

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	WIN	MEAN	TOTAL
00603	73	66	64	59	56	55	53	59.3	870
90380	70	64	63	58	55	53	48	58,4	1778
12615	73	67	63	59	55	54	51	59.0	799
18821	77	72	68	62	57	55	54	61.9	1635
TOT	77	69	65	59	55	54	48	59.9	5282

 PERICO: (PRIMARY) 1906-1977 (DVER-ALL) 1868-1977

TABLE 17

AREA 0030 ANTOFAGASTA

	EDEA	DE	ATD	TEMPEDATIOS	Inec	= 1	AND	THE	DECLIBRENCE		nc	PHITHOUT	PRECIPITATION)
-61	- KEW	d.	-1"	CULCKAINKE	IDER		AND	INE	DECOMMENCE	UF 1	-	(M T I HOO!	Lufe fe ! I wi Ind.

•	2 MIN	-SCW	CULE	MIUNE	DAFF	EVENAGE	(DEG F)		
AIR-SEA	53	57	61	65	69	73 76	TOT	FOG	WO
THP DIF	56	60	64	68	72	76		FOG	FUG
11/13	.0	.0	.0	.0	.4	.0	4	.0	.4
9/10	.0	.0	.1	. 2	. 4	. 1	8	.0	. 8
7/8	.0	.0	.0	. 4	.2	.0	6	.0	.6
6	.0	. 2	.1	. 1	. 1	.0	5	.0	.5
5	.0	.1	.6	.2	.1	.0	5 10	.0	1.1
4	.1	.1	.7	.7	.0	.0	16	.0	1.7
3	.1	. 5	1.4	. 2	.0	.0	21	.0	1.1 1.7 2.2
2	.1	.0	3.8	. 5	.0	.0	57	.2	5.8
1	.4	3.6	3.8	.6	.0	.0	80	.1	8.4
0	1.0	10.2	5.0	.1 .2 .7 .2 .5 .6 .1	.0	.0	153	.1	16.0
-1	1.3	11.6	4.3	.0		000000000000	162	. 1	17.1
-2	1.8	12.6	2.4	.0	.0	.0	159	.1	16.8
-3	2.7	9.5	1.6	.0	.0	.0	130	.0	13.8
-4	1.9	4.2	.6	.0	.0	.0	64	.0	6.8
-5	1.0	3.4	.2	.0	.0	.0	43	.0	4.6
-6	.7	1.0	.0	.0	.0	.0	26	.0	1.7
-7/-8	.3	.6	.0	.0	.0	.0	9	.0	1.0
TOTAL	108		234		12			7	936
		558		30		1	943		
PCT	11.5	59.2	24.8	3,2	1.3	.1	100.0	.7	99.3
PCT	11.5	59.2	24.8	3,2	1.3	.1	100.0	.7	9

PERIOD: (DVER-ALL) 1963-1977

								1,	APPE TO						
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	. 48+	PET		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	. 8		.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0		.0	1.0	.0	.0	•0	.0	1.0
3-4	.0	, 3	.0	.0	.0		,3		.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	•0	.0	.0
12	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	00000000		.0	.0	.0	.0	•0	.0	.0
26-32	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	•0	.0	.0
41-48	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	•0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.00
TOT PCT	.3	.8	.0	•0	.0	•0	1.0		•0	1.0	•0	•0	.0	.0	1.0
				E	Tanks - comme							\$E 22-33			
HGT	1-3	4-10	11-21	22-33	34-47		PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	,3		.1	.9	.0	.0	.0	.0	1.0
1-2	.0	.0	.0	.0	.0	.0	.0		,3	2.3	2.1	.0	.0	.0	4.8
3-4	.0	.0	• 0	• 0	.0	.0	.0		.0	3.2	3.8	.3	.0	.0	7.2
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.6	1.4	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.1	1.6	.0	.0	.0	2.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	•0	.0		.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0		.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0		.0		,0	.0	,0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	PCT 1.8 7.2 2.0 0 0 0 0 0 0 0 0 0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0 .0 7.2	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.0	.0	.0	.0	,3		,3	7.2	9.1	.8	.0	.0	17.4

								S	EPTEMBER				4054	0030	ANTOFAG	
PERIOD	: (DAE	K-ALL)	1963-1	977				-48. E	18 (CUNT				AKEA	22.		.4W
								TABLE	10 (CON)	,				24.	13 /1	. 4 #
				PC	T FREQ D	F WIND	SPEED	(KTS)	AND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT	1		
				s								22-33				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.1	4.9	. 5	.0	.0	.0	7.6		.2	.7	.3	.0	.0	.0	1.2	
1-2	.0	13.0	2.7	.0	.0	.0	15.7		.1	2.6	.4	.0	.0	.0	3.1	
3-4	.0	9.8	11.7	.5	.0	.0	21.9		.0	1.9	1.2	.0	.0	.0	3.1	
5-6	.0	2.3	7.0	1.0	.0	.0	10.4		.0	.5	. 2	.0	.0	.0	.7	
7	.0	. 4	2.7	.8	.0	.0	3.4		.0	.0	.1	.0	.0	.0	. 1	
8-9	.0	.3	.0	.8	.0	.0	1.1		.0	.0	.3	.1	.0	.0	.4	
10-11	.0	. 3	. 3	1.3	.0	.0	1.8		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	. 5	.0	.0	.0	.5		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.6	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	30.9	25.3	4.5	.0	•0	62.9		.3	5.7	2.5	.1	.0	•0	8.6	
				w								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.0	.0	.0	.0	.0	. 2		.0	.0	.0	.0	.0	.0	.0	
		• •							•				•			

701		4-10	11-51	22-33	24-41	404						404		
<1	.2	.0	.0	.0	.0	.0	. 2	0 .	0 .0	.0	.0	.0	.0	
1-2	.2	. 8	.0	.0	.0	.0	1.0	0	7 .0	.0	:0	.0	.7	
3-4	.0	. 0	.0	.0	.0	.0	.0	0 .	0 .3	.0	.0	.0		
5-6	.0	.0	. 2	.0	.0	.0	.0	0	0 .0	.0	.0	.0	.0	
7	.0	. 0	.0	.0	.0	.0	.0	0 .	0 .0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	0	0 .0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	. 5	0	0 .0	.0	000	.0	.0	
12	.0	.0	.0	.0		.0	.0	0	0 .0	.0	0	.0	. 0	
13-16	.0	. 0	.0	.0	.0	.0	.0	0	0 .0	.0	.0	.0	.0	
17-19	.0	. 0	.0	.0	.0	.0	.0	0	0 .0	.0	. 0	.0	. 0	
20-22	.0	.0	.0	.0	.0	.0	.0	0	0 .0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	0	0 .0	.0	.0	.0	. 0	
26-32	.0	.0	.0	.0	.0	.0	.0	0 .	0 .0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	ō	0	0 .0	.0	0	.0	.0	
33-40 41-48	.0	• 0	.0	.0	.0	.0	.0	0	0 .0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	0	0 .0	.0	. 0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	0	0 .0		.0	.0	• 0	
71-86	.0	.0	.0		.0	.0	.0	ŏ :	0 .0	.0	• 0	.0	.0	
87+	.0	.0	.0	.0	• 0	.0	.0	ŏ	0 .0	.0	• 0	.0	.0	
TOT PCT	.4	.0	.0	.0	.0	.0	1,2	ŏ :	7 .3	.0	• 0	.0	1.0	93.5
IUI PCI	• •		.0	.0	.0	.0	1,2	•		.0		.0	1.0	73.3

	WIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	11.9	7.1	.8	.0	.0	.0	19.7	403
1-2	. 8	19.9	5.1	.0	.0	.0	25.8	
3-4	.0	14.6	16.4	.8	.0	.0	31.8	
5-6	.0	3,3	8.3	1.0	.0	.0	12.6	
7	.0	. 5	4.5	. 8	.0	.0	5.8	
8-9	.0	. 3	.3	1.5	.0	.0	2.0	
10-11	.0	. 3	.3	1,3	.0	.0	1.8	
12	.0	.0	.5	.0	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
-11		••		••	•	•••	••	396
	12.6	46.0	36.1	5.3	.0	.0	100.0	

TABLE 1

AREA 0030 ANTOFAGASTA 21.95 71.6W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

					-										
			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
N NE	.0	.0	.0	:0	.0	.0	.0	:0	.0	:0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0		100.0
SE	.0		.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.2		98.6
S	.0	.0	.6	.0	.0		.2	. 8	.3	.2	. 8	.0	.1	.0	98.0
SW	.0	.0	3.7	.0	.0	.0	.0	3.7	.2	.0	.9	.0	.0	.0	95.2
NW NW	.0	.0	7.3	.0	.0	.0	.0	7.3	.0	.0	.0	• 0	.0	.0	92.7
	.0	.0	.0	.0	.0	.0	.0	.0	•0	.0	.0	• 0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	• 0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	2.4	.0	.0	.0	95.1
TOT PCT	885	.0	.9	.0	.0	.0	•1	1.0	.3	.1	.9	•0	-1	.0	97.6

TABLE 2

PERCENT	FREDUENCY	OF	WEATHER	DCCURRENCE	RY	HOUSE

	PRECIPITATION TYPE											OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST	THDR	FOG WO PCPN	FOG WO PCPN PAST HR	SMUKE	SPRAY BLWG DUST BLWG SNOW				
00803 06809 12815 18821	.0	.0	1.4 .7 1.4	.0	.0	.0	.0	1.4 1.1 1.4 .5	.5	.0	1.1 1.4	•0	.0	.0	97.7 97.1 96.7 99.1			
TOT PCT	.0	.0	1.0	.0	.0	.0	.1	1.1	.3	.1	.9	•0	.1	.0	97.6			

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

5				ED IKN		4.5								(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	PCT	SPD	00	03	06	09	12	15	18	21
N_	1.5	1.2			.0	.0		2.7	3.9	1.2	.0	4.3	5.0	4.4	.0	1.6	.5
NE	.6	.5		.0	.0	.0		1.2	3.8	.6	.0	1.1	1.9	2.6	.0	. 8	. 3
E	.7	.6	.1	.0	.0	.0		1.4	4.9	.7	.0	1.5	2.0	2.7	7.3	1.1	. 3
SE	2.7	10.1	5.5	.5		.0		18.7	9.0	17.0	18.1	18.4	17.7	21.8	21.9	19.4	17.0
S	9.7	28.6	11.4	. 8	.2	.0		50.7	8.1	56.2	51.4	46.8	43.0	43.4	57.3	54.8	57.4
SW	3.8	7.8	1.5	.1		.0		13.2	6.4	14.4	25.0	12.5	10.6	11.4	13.5	13.3	18.2
W	1.2	. 8	.1	.0	.0	.0		2.1	3.7	1.9	5.6	2.6	3.6	1.3	.0	1.8	1.7
NW	. 9	.7			.0	.0		1.7	4.0	.8	.0	2.5	2.9	2.2		1.1	1.2
VAR	.0	.0	.0		.0	.0		.0	.0	.0		.0		.0			
CALM	8.3		••	••	••	••		8.3	.0	7.1	.0	10.4	13.2		.0	0	
TOT OBS	1921	3271	1212	91	12	0	6507	0,5	7.0					10.1	.0	6.3	3.5
						0			1.0	1023	18	1117	899	919	24	1859	648
TOT PCT	29.5	50.3	18.6	1.4	.2	.0	1	00.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

WND DIR	0=6	7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL	PCT	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	.4	.0	.0	.0		2.7	3.9	1.2	4.6	4.3	1.3
NE	1.0	.1	.0	.0	.0		1.2	3.8	.6	1.4	2.6	.6
E	1.1	. 2		.0	.0		1.4	4.9	.7	1.7	2.8	. 9
SE	7.6	8.9	2.1	.1			18.7	9.0	17.0	18.1	21.8	18.7
5	23.6	23.2	3.6	.2	.1		50.7	8.1	56.1	45.1	43.8	55.4
SW	8.0	4.8	. 3		.0		13.2	6.4	14.6	11.7	11.4	14.5
W	1.9	.2	.0	.0	.0		2.1	3.7	2.0	3.0	1.3	1.7
NW	1.5	.2	.0	.0	.0		1.7	4.0	.8	2.7	2.2	1.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	
CALM	8.3		•				8.3	.0	7.0	11.7	9.9	5.6
TOT OBS	3613	2476	390	20	8	6507		7.0	1041	2016	943	2507
TOT PCT	55.5	38.1	6.0	.3	.1		100.0				100.0	

DCTOBER

PERIOD: (PRIMARY) 1906-1977 (DVER-ALL) 1864-1977

TABLE 4

AREA 0030 ANTOFAGASTA 21.95 71.6W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	MIND	SPEED (48+	MEAN	PCT	DES
£0300	7.0	15.9	50.5	23.9	2.6	.1	.0	8.0	100.0	1041
06609	11.7	26.4	47.0	13.2	1.4	.3	.0	6.0	100.0	2016
12615	9.9	26.9	46.2	16.1	. 5	.3	.0	6.2	100.0	943
18621	5.6	17.1	54.3	21.7	1.2	.1	.0	7.6	100.0	2507
TOT	541	1380	3271	1212	91	12	0	7.0		6507
DCT	4 2	21.2	50.3	10 4	1 4	. 2	. 0		100 0	

TABLE

**** *

P	CT FREG			DIRFC		EIGHTHS)							CEILIN					
WND DIR	0=2	3-4	5-7	8 &	TOTAL	CLDUD COVER	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.2	.0	.3	1.3		7.3	.0	.0	.0	.0	1.1	.4	.0	.0	.0	.0	. 2	
NE	.0	.0	.2	.6		7.5	.0	.0	.0	.0	.4	. 3	.0	.0	.0	.0	.0	
E	.0	. 2	.3	.3		6.0	.0	.0	.0	.0	.4	. 1	.0	.0	.0	.0	.2	
SE	1.0	1.4	5.4	12.0		6.9	.0	.0	. 1	2.2	8.5	4.0	.7	.7	.0	.0	3.6	
S	7.2	5.3	14.4	30.4		6,3	.0	.3	.4	7.6	20.1	8.8	1.7	1.4	.2	. 4	16.4	
SW	1.6	1.6	3.1	6.3		6.0	.2	.0	. 2	.9	4.3	2.0	.3	.0	.5	*	4.3	
W	. 1	.3	.1	.3		5.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	. 4	
NW	. 2	. 2	.2	. 6		6.2	.0	.0	.0	.0	.5	. 2	. 2	.0	.0	.0	.3	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.3	1.1	3.8		7.2	.0	.0	.0	1.1	2.0	1.1	.0	.0	.0	. 5	. 8	
TOT OBS	68	61	165	366	660	6.4	1	2	4	78	247	113	19	14	4	6	172	66
TOT PCT	10.3	9.2	25.0	55.5	100.0	-	. 2	.3	.6	11.8	37.4	17.1	2.9	2.1	.6	.9	26.1	100.0

TABLE 7

		L	L CEILIN	O HEIGH	(NH >4/	O AND V	301 (Mm	•	
					VSBY (NM	1)			
C	EILING	• DR	• DR	- DR	• DR	• DR	• DR	 GR 	= CR
(FEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
- OK	>6500	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	>5000	3.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7
. OR	>3500	5.9	6.5	6.5	6.5	6.5	6.5	6.5	6.5
- OR	>2000	21.6	23.7	23.8	23.8	23.8	23.8	23.8	23.8
. TR	>1000	58.1	61.6	61.8	61.8	61.8	61.8	61.8	61.8
- OR	>600	69.0	73.1	73.4	73.4	73.4	73.4	73.4	73.4
. 08	>300	69.6	73.7	74.0	74.0	74.0	74.0	74.0	74.0
. DR	>150	69.7	74.0	74.3	74.3	74.3	74.3	74.3	74.3
. OR	> 0	69.9	74.1	74.4	74.4	74.4	74.4	74.4	74.4
	TOTAL	475	504	506	506	506	506	506	506

TOTAL NUMBER OF DESI 680

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

PCT FREQ NH <5/81 25.6

0 1 2 3 4 5 6 7 8 DBSCD DBS 4.9 4.8 4.5 6.1 4.9 4.9 9.9 8.8 51.2 .0 73

nc	40	E D

PERIOD: (PRIMAR	() 1906-1977		AREA 0030 ANTOFAGASTA
(OVER-A	L) 1864-1977	TABLE 8	21.95 71.6W

		P	ERCENT	PREC	OF WIN	D DIRE	TH VAR	VS DCC	LUES	DF VIS	NON-DC	CURRENC	E OF
VSBY		N	NE	E	SE	5	SW		NW	VAR	CALM	PCT	TOTAL
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT &	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	• 0	
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	• 0	.0	.0	.0	
	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
2<5	NO PCP	. 2	.0	.0	.1	. 2	.0	.0	.0	.0	. 1	.6	
	TOT \$. 2	.0	.0	.1	. 2	. 1	.0	.0	.0	. 1	.7	
	PCP	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0		
5<10	NO PCP	1.2	.1	.0	2.8	8.3	1.3	.3	. 3	.0	.2	14.6	
	TOT %	1.2	. 1	.0	2.8	8.5	1.4	. 5	. 3	.0	.2	15.0	
	PCP	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.5	
10+	NO PCP	1.0	. 5	. 6	15.9	49.2	10.4	1.1	. 9	.0	4.3	83.8	
	TOT \$	1.0	.5	.6	15,9	49.5	10.6	1.1	. 9	.0	4.3	84.3	
	TOT 085												884
	TOT PCT	2.4	.6	.6	18,7	58.2	12.1	1.6	1.2	.0	4.6	100.0	

TABLE 9

			P				ND DIR				ED		
VSBY	SPD KTS	N	NE	E	SE	S	SW	*	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	• 0	•0	.0	.0	.0	.0	.0	.0	.0	•0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	• 0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	. 0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	
2<5	4-10	.0	.0	.0	.3	. 3	.1	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	• 0	.0	.3	.3	.1	.0	.0	.0	.2	1.1	
	0-3	.7	.1	.1		1.6	.4	.2		.0	1.4	4.5	
5<10	4-10	.3	.0	. 1	1.4	3.9	1.4	. 2	. 2	.0	-	7.4	
	11-21	.1	.0	.0	.9	1.4	.1	.0		.0		2.7	
	22+	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	TOT \$	1.1	• 1	.2	2.3	7.3	2.0	.4	.2	.0	1.4	14.9	
	0-3	.4	.3	.1	.6	5.4	1.4	.5	.6	.0	8.4	17.8	
10+	4-10	1.1	.3	.1	6.0	24.3	9.2	. 8	.5	.0		42.5	
	11-21	•	.0	.2	5.4	13.9	2.4	.1	. 1	.0		22.2	
	22+	.0	.0	.0	.5	1.0		.0	.0	.0		1.5	
	TOT %	1.5	.6	.5	12.5	44.6	13.1	1.4	1.2	.0	8.4	84.0	
1	OT DBS												1243
1	TOT PET	2.8	.7	.6	15.2	52.2	15.2	1.8	1.4	.0	10.1	100.0	

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PERIOD: (PRIMARY) 1906-1977 (DVER-ALL) 1864-1977

TABLE 10 AREA 0030 ANTOFAGASTA 21.95 71.6W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
00603	.0	1.2	•0	12.1	32.7	16.4	3.0	1.2	. 0	.6	67.9	32,1	165
90300	.0	.0	1.7	11.6	41.4	16.6	1.7	.0	.6	2.2	75.7	24.3	181
12615	.0	.0	.6	13.6	44.6	21.5	3.4	2.3	.6	1.1	87.6	12.4	177
18821	.6	.0	•0	8.3	29.6	14.2	3.0	4.7	.6	.0	60.9	39.1	169
TOT	.1	.3	.6	79	258	119	2.7	2.0	.6	7	507	185	692

TABLE 11

TABLE 12

													•		
			PERCENT	FREQUENCY	VSBY	(NM)	BY HOUR		CUMULAT	IVE PCT	FREQ	OF RAN	GES OF NH >4/8	VSBY (NA)	AND/DR
HOL		/ 2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GHT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
008	103	• 0	.0	.0	1.0	14.9	84.1	289	00803	.0	1.2	13.6	55,6	30.9	162
068	109	• 0	.0	.0	1.4	20.6	78.0	436	90360	.0	1.7	14.0	62.4	23.6	178
128	115	.0	.0	.0	1.5	12.3	86.2	260	12615	.0	.6	14.2	73.9	11.9	176
188	21	.0	.0	.0	. 3	12.6	87.1	294	18621	.6	.6	9.1	53.7	37.2	164
TO		0	.0	0	14	202		1279	TOT	1	1.0	87	419	174	680

	PERC	ENT FR	EQUENC	Y OF R	ELATIV	E HUMI	DITY BY	Y TEMP		РСТ		P
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	
75/79	.0	.0	.0	.0	.0	.1	.0	.0	1	.1	.0	
70/74	.0	.0		. 5	.7	.1	. 2	. 1	20	2.5	.1	
65/69	.0	.0	.0	.9	3.9	3.9	1.4	.1	83	10.2	.1	
60/64	.0	.0	.0	1.5	14.1	27.8	11.8	1.8	464	57.1	1.5	
55/59	.0			.0	4.3	12.8	10.3	2,2	241	29.6	. 8	
50/54	.0	.0	.0	.0	.0	.1	. 2	. 1	4	.5	.0	
TOTAL	0	0	6		188	365	195	36	813	100.0		
DCT	0	0	7		22 1	44 0	24 0	4 4			2 5	

	PERCENT	FR	EQUENCY	DF	WIND DIE	RECTION	BY TE	чР	
N	NE	E	SE	S	SW		NW	VAR	CALM
.0	.0	.0	.0	. 1	0	.0	.0	.0	.0
.0	:0	. 1	. 8	1.3	.1	.0	.0	.0	.0
.1	.0	. 2	2.2	6.2	1.4	.1	.0	.0	.0
1.5	.6	.4	12.7	30.6		.4	.5	.0	3.6
. 8	.0	.0	5.0	17.6	3.4	1.0	.5	.0	1.4
.0	.0	.0	• 0	. 1	. 2	.1		.0	.1
2.5	.6	.7	20.8	55.9	11.7	1.6	1.0	.0	5.0

TABLE 15

	MEANS,	EXTREME	S AND	PERCE	TILES	OF TE	MP IDE	G F) B	Y HOUR
HOUR (GMT)	MAX	99%	95%	50%	5%	1\$	MIN	MEAN	TOTAL
00803	70	68	66	41	57	56	52	61.1	1021
90300	72	66	64	60	56	54	50	60.0	2034
12615	75	68	66	61	57	55	51	60.9	928
18821	81	74	71	64	59	57	50	64.2	2329
TOT	81	72	68	61	57	55	50	61.9	6312

	PERC	EN! PRE	SADEME A	OF KELA	LITAE H	UMIDITY	BY HUUK	
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
60300	.0	1.0	20.0	49.0	27.5	2.5	76	200
90300	.0	. 8	14.1	44.7	33.3	7.1	78	255
12615	.0	2.1	24.9	49.2	19.0	4.8	75	189
18621	.0	10.4	32.7	35.6	17.8	3.5	71	202
τατ	0	29	189	377	212	39	75	846

OCTOBER

PERIOD: (PRIMARY) 1906-1977 (OVER-ALL) 1864-1977 TABLE 17

AREA 0030 ANTOFAGASTA 21.95 71.6W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	53	57	61	65	69	73	TOT	W	WO
THP DIF	56	60	64	68	72	76		FOG	FDS
17/19	.0	.0	.0	. 1	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	. 1	.0	1	.0	. 1
11/13	.0	.0	.0	.0	. 5	.2	6	.0	.7
9/10	.0	.0	.0	. 2	.4	. 2	6 7	. 1	. 7
7/8	.0	.0	.4	.5	:5	.0	11	.0	1.3
6	.0	. 4	.4	.6	1.2	.0	21	.0	2.5
6	.0	.2	. 1	2.0	.2	.0	22	.0	2.6
4	.0	.1	1.5	1.2	.0	.0	24	. 1	2.5 2.6 2.7 3.4
3	. 2	. 8	1.4	. 8	.1	.0	29	.0	3.4
2	. 1	1.8	3.0	1.1	.1	.0	51	.0	6.1
1	.1	1.9	5.2	1.1	.0	.0	71	.1	8.3
0	. 1	6.7	10.1	. 5	. 1	.0	147	.4	17.1
-1	.1	7.5	5.6	.4	.0	.0	114	.0	13.5
•2	.4	8.0	6.8	.4	. 1	.0	130	.0	15.4
-3	.4	9.7	3.1	.4	.2	.0	116	. 1	13.7
-4	.4	3.8	1.5	.0	.0	.0	48	.0	5.7
-5	. 2	2.3	1.0	.0	.0	.0	29	.0	3.4
-6	.4	.7	.1	.0	.0	.0	10	.1	1.1
-7/-8	.2	. 1	.0	.0	.0	.0	3	.0	.4
-11/-13	.0	.1	.0	.0	.0	0	1	.0	. 1
TOTAL	23	• •	338		30			8	834
		371		76		4	842	-	
PCT	2.7		40.1	9.0	3.6	. 5	100.0	1.0	99.0

PERIOD: (DVER-ALL) 1963-1977

				PC	T FREQ	DF WIND	SPEED	(KTS) A	ND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)		
HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PCT		1-3	4-10	11-21	NE 22-33	34-47	48+	PCT
<1	.6	.0	11-51	.0	.0	.0			.3	.3	.0	.0	.0	.0	
1-2	.0	. 8	.0	.0	.0	.0	.6		.0	.1			• 0		.6
3-4	.0	.0	.0	.0	.0	.0	. 8		.0	.0	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0		.0	:0		.0	0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• •	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	:0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	0000000	.0	.0
17-19	.0	.0	.0	.0	.0	.0	:0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	:0		.0	.0	.0	.0	• 0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	:0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	:0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.ŏ	.0	.0
49-60	.0	.0	.0	.0	.0	.0	:0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	:0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• •	.0	.0
87+ TOT PCT	.6	.8	.0	.0	.0	.0	1.4		.3	:4	.0	.0	:0	.0	.0
				E											
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3		.0	1.0	.0	.0	. 0	.0	1.0
1-2	.0	. 2	.0	.0	.0	.0	.2		.4	4.1	1.0	.0	.0	.0	5.5
3-4	.0	- 0	. 3	.0	.0	.0	. 3		. 3	2.8	2.5	.0	.0	.0	5.5
5-6	.0	.0	.0	.0	.0	.0	.0		.0	. 6	1.6	.3	.0	.0	2.5
7	.0		.0	.0	.0	.0	.0		.0	.3	.7	. 9	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	- 0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
TOT PCT	.3	. 2	. 3	.0	.0	.0	. 6		.7	8.8	5.7	1.2	.0	.0	16.4

									DCT	DBER				_			
PERIOD:	(OVE	R-ALL)	1963-1	977				TABLE	18	(CONT)				AREA	21.	ANTOFAG	.6W
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND	DIREC	TION	VERSUS :	SEA HEIG	HTS (FT)			
				5									22-33	_			
HGT <1	3.0	4-10	11-21	22-33	34-47	48+	PCT 7.7			1-3	4-10	11-21	22-33	34-47	48+	PCT	
1-2	1.8	14.7	0	.0	.0	.0	21.6			.7	4.5	.0	.0	.0	.0	5.7	
3-4		7.7	11.0	.3	.0	.0	19.0			.0	1.7	1.7	.0	.0	.0	3.4	
5-6	.0	2.0	3.2	.3	.0	.0	5,5			.0	. 4	.,9	.0	.0	.0	1.3	
7	.0	.3	2.8	.3	.0	.0	3,3			.0	.0	i	.0	. 0	.0	.1	
8-9	.0	.0	.6	.0	.0	.0	. 6			.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.6	. 2	.0	.0	. 8			.0	.0	.0	.1	.0	.0	. 1	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
33-40 41-48	.0	.0	• 0	•0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	•0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0	.0	
71-86	.0	.0	.0	•0	.0	.0	• 0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0	.0	
TOT PCT	4.8	29.4	23.3	1.1	.0	.0	58.6			1.9	8.0	3.2	.1	.0	.0	13.2	
	4.0	27.4	-5.9	•••	••	••	,,,,			•••	•••	202	•••			13.2	
																	TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	. 2	.0	.0	.0	.0	. 2			.3	.6	.0	.0	.0	.0	. 9	
1-2	.9	.0	.0	.0	.0	.0	, 9			.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
	0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	• 0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	•0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	•0	.0	.0	.0			.0	.0	.0	.0	:0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			. 0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	. 2	.0	.0	.0	.0	1.1			.3	.6	.0	.0	.0	.0	.9	93.2

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	13.7	8,5	.0	.0	.0	.0	22.2	003
1-2	4.8	23.6	6.3	.0	.0	.0	34.6	
3-4	.3	12,3	14.8	.3	.0	.0	27.6	
5-6	.0	2,8	5.4	.6	.0	.0	8.8	
7	.0	. 6	3.4	1.1	.0	.0	5.1	
8-9	.0	.0	. 6	.0	.0	.0	.6	
10-11	.0	.0	. 6	.3	.0	.0	. 9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	. 0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	. 0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								351
TOT PCT	18.8	47.9	31.1	2,3	.0	.0	100.0	

PERIO	D: (QV	ER-ALL) 194	9-197	,				TABLE	19											
					PERCENT	FRE	QUENCY (F WA	VE HET	HT (F1) VS	WAVE P	ERIDO	(SECON	05)						
PER 100	41	1-2	3-4	5-6	7	8-9	10=11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
66 6-7 8-9 0-11 12-13	2.8	8.2	11.3	4.4	1.2	1.6	2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	177	3
6-7	.3	2.5	8.4	13.3	4.1	1.6	1.6		. 2	.0	.0	.0	.0	.0	.0	.0	.0	• 0	.0	197	5
8-9	.0	1.5	2.6	5.9	5.3	3.8	1.5	. 3	. 8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	6
0-11	.0	.2	.7	1.0	2.5	.5	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	7
12-13	.0	.0	. 3	.3	.5	.2	.2	. 5	. 2	.0	.0	.0	.0	.0	.0	.0		.0	.0	13	8
917	.0	.0	.0	.2	.5	. 2	.0	. 2		.0	.0			.0	.0	.0		.0	.0	6	8
19067	1.3	1.6	2.3	1.3				.0		.0	.0			.0	.0	.0		.0	.0	45	3
THIAL	27	85	156	161	90	41	25	10	12	1	0	0	0	0	0	0	0	0	0	608	3
*51	4.4	14.0	25.7	20.5	14.8	6.7	4.1	1.6	2.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1905-1977 (DVER-ALL) 1871-1977

TABLE 1

AREA 0030 ANTOFAGASTA 21,85 71.7W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
N	.0	.0	.0	.0	.0	.0	.0	.0	6.4	.0	.0	.0	.0		93.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	95.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E SE	.0	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0		99.3
S	.0	.0	.5	.0	.0	.0	.0	.5	.4	.0	. 1	.0	.7		98.3
SW	.7	.0	.9	.0	.0	.0	.0	1.6	.0	.0	.2	.0	.9		97.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	.0	.0	4.1		90.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0		96.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	2.0	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	.0	.0	96.1
TOT PCT	924	.0	.6	.0	.0	•0	.0	.8	.4	.1	.1	.0	.6	.0	97.9

TABLE 2

DEDCENT	CDECHENEY	0.0	UEATUED	DECURRENCE	BY HOUR

			F	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST Hour	THDR	FDG WD PCPN	FOG WO PCPN PAST HR	SMOKE		
00603 06609 12615 18621	.0	.0	1.3	.0	.0	.0	.0	1.3	.0 .4 .9	.0	.0	.0 .0 .0	1.8	.0	98.3 95.7 99.1 99.5
TOT PCT	949	.0	.6	.0	•0	•0	.0	.7	.4	.1	.1	•0	.6	.0	98.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	0-3			22-33		48+	TOTAL OBS	PCT	MEAN SPD	00	03	06	HOUR 09	(GMT)	15	18	21
N NE	.9	.8	:	.0	.0	.0		1.6	4.0	.8	.0	3.1	3.4		.0		.8
E	.7		.1	• •	.0			1.7	5.0		.0	2.1	4,2	1.1	.0		• • •
SE		8	4.4	.2		.0		18.3	8.1	14.9	22.2	18.1	21.1	24.6	18.2	1.0	16.5
3.	3.2	10.4			• 0											16.2	
S	10.5	31.7	9.6	.5	.0	.0		52.2	7.4	60.2	55.6	48.5	38.4	46.0	55.7	57.1	60.3
SW	4.0	8.3	1.0	.1	.0	.0		13.3	5.8	15.9	11.1	12.0	9,2	8.7	12.5	16.2	15.9
W	1.1	. 8		.0	.0	.0		2.0	3.7	1.5	.0	2.3	1.9	2.7	.0	2.0	1.4
NW	. 8	.7			.0	.0		1.5	3.8	.7	.0		3.1	1.4	4.5	. 9	. 7
VAR	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0
CALM	8.2					100		8.2	.0	5,2	11.1	10.2	15.3	11.1	9.1	5.4	3.5
TOT OBS	1783	3211	909	45	0	0	5948		6.5	947	18	1040	829	838	22	1693	561
TOT PCT	30.0	54.0	15.3	.8	.0	.0		100.0			100.0			100.0			

TABLE 3A

		WIND	SPEED	(KNOTS)						HOU	C COMT)
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL	PCT	MEAN	00	06	12	18
						085	FREQ	SPD	03	09	15	21
N	1.4	.2		.0	.0		1.6	4.0	.8	3.2	1.7	.7
NE	1.0	.1	.0	.0	.0		1.1	3.7	.3	2.4	1.1	.4
	1.4	.3			.0		1.7	5.0	.5	3.0	2.6	. 9
SE	8.1	8.9	1,3		.0		18.3	8.1	15.1	19.4	24.5	16.3
5	26.5	23.4	2,2	.1	.0		52.2	7.4	60.1	44.0	46.2	57.9
SW	9.0	4.2	, 2	.0	.0		13.3	5.8	15.8	10.7	8.8	16.1
W	1.8	.2	.0	.0	.0		2.0	3.7	1.5	2.1	2.6	1.8
NW	1.3	.2	.0	.0	.0		1.5	3.8	• 7	2.6	1.5	. 9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.2						8.2	.0	5.3	12.5	11.0	4.9
TOT DBS	3493	2226	220	9	0	5948		6.5	965	1869	860	2254
TOT PET	58.7	37.4	3.7	.2	.0		100.0			100.0		

PERIOD: (PRIMARY) 1905-1977 (GVER-ALL) 1871-1977

TABLE 4

AREA 0030 ANTOFAGASTA 21.85 71.7W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				WIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10		22-33		48+	MEAN	FREQ	OBS
60300	5.3	14.5	56.9	22.1	1.2	.0	.0	7.7	100.0	965
06609	12.5	27.7	48.0	11.2	. 6	.0	.0	5.4	100.0	1869
12615	11.0	26.0	49.8	12.6	.6	.0	.0	5.8	100.0	860
18621	4.9	18.3	59.3	16.8	.7	.0	.0	7.0	100.0	2254
TOT	490	1293	3211	909	65	0	0	6.5		5948
DOT	9 2	21.7	54.0	15.3	A	. 0	. 0		100-0	

TABLE 5

TABLE 5

P	CT FRE			DIREC		(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN	B BY	HTS (T, NH	4/8) N	
WND DIR	0=2	3-4	5-7	N & E	TOTAL	MEAN CLOUD COVER	000 149	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.0	.1	.0	.5		7.2	.0	.0	.0	.0	.1	.2	.0	.0	.1	.0	.1	
NE	. 1	. 1	.0	.1		3.2	.0	.0	.0	.0			.0	.0		.0	. 3	
E	.5	.0	.2	. 5		4.7	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.5	
SE	1.3	.6	4.1	11.6		7.0	.0	.0	, 2	2.6	6.4	4,5	. 8	. 2		.0	2.8	
S	7.8	5.1	13.6	33.9		6.4	.0	.1	. 8	7.9	16.5	12.3	4.1	.6	.2	. 1	17.7	
SW	3.1	. 8	3.0			5,8	.0	.0	.1	2.4	3.5	2.2	.6	. 1	. 3	.0	4.5	
u	.0	. 2	.1	. 0		6,9	.0	.0	.0	.0	. 9	.1	.0	.0	.0	.0	. 2	
NW	.0		.0	• •		7.6	.0	.0	.0	.0			.0	.0	.0	. 0		
VAR	.0	.0	.0	• 0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	-	1.4	2.6		7.0	.0	.0	. 1	. 8	1.4	1.1	.1	.0	.0	. 1	. 7	
TOT OBS	97	52	164	420	733	6.4	.0	• •		101	215	155	41	7		• ;	197	733
						-,-			1.2	13.8	29.3			1.0		.3		
TOT PCT	13.2	7.1	22.4	57.3	100.0		• 0	• 1	102	13.0	64.3	21.1	5.6	1.0	.7		26.9	100.0

TABLE 7

		OF SIMULTANEOUS	
OF CEILING	HEIGHT	(NH >4/8) AND V	56 (NM)

					VSBY (NM	()			
CF	LING	- OR	• UR	• OR	• OR	- OR	· OR	- OR	= OR
	FTI	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
• OK :	6500	.9	.9	1.1	1.1	1.1	1.1	1.1	1.1
. nR	5000	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0
· OR		6.8	7.4	7.8	7.8	7.8	7.8	7.8	7.8
· nR		26.1	28.5	29.0	29.0	29.0	29.0	29.0	29.0
. OK :		53.1	57.7	58.2	58.2	58.2	58.2	58.2	58.2
. DR		65.7	71.2	71.8	71.8	71.8	71.8	71.8	71.8
- DR		66.7	72.4	73.0	73.0	73.0	73.0	73.0	73.0
· OR		66.8	72.6	73.1	73.1	73.1	73.1	73.1	73.1
. DR :	TOTAL	66.8	72.6	73.1	73.1	73.1	73.1	73.1	73.1

TOTAL NUMBER OF OBS1 747 PCT FREQ NH <5/81 26.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 DBSCD DBS 5.2 6.4 5.9 4.1 4.8 3.0 6.4 12.1 52.2 .0 811

								NOV	EMBER							
:	(PRIMARY) (OVER-ALL)	1905-1977						TA	8LE 8				ARE		21.85	DFAGASTA 71.7W
			PE	RCENT	PREC	DF WIN	D DIRE	CTION TH VAR	ATME AT	LUES	E OR N	IBILI	CURRENC TY	E OF		
	VSBY (NM)		N	NE	E	SE	s	Sw	W	NW	VAR	CALM	PCT	TOTAL		
		PCP	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0			
	<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
		TOT >	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
	1/24	1 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
		TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
	1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
		TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	2<5	NO PCP	. 1		.0	. 1	.1	.1	.0	.0	.0	.0	.4			
		TOT %	. 1		.0	.1	.1	.1	.0	.0	.0	.0	.4			
		PCP	.0	.0	.0	.1	.1	.2	.0	.0	.0	.1	.5			
	5<10		.7	. 1	.2	1.0	3,0	1.9	.7	. 3	.0	1.2	10.1			
		TOT *	.7	. 1	. 2	1.1	4.0	2.2	.7	.3	.0	1.3	10.6			
		PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0				
	10+	NO PCP	.5	. 4	.9	13.9	54.5	12.6	1.3	.4	.0	4.2	88.7			
		TOT X	.5	.4	. 9	13.9	54.7	12.6	1.3	.4	.0	4.2	88.9			
		TOT OBS				-								922		
		TOT PCT	1.3	.6	1.2	15.2	58.8	14.8	2.0	.7	.0	5,5	100.0			

PERIOD

TABLE 9 PERCENT FREQ DF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY VSBY SPD (NM) KTS 0-3 <1/2 4-10 11-21 22+ TOT \$.0 .0 .0 s NW .000000 000000 010001 130004 340008 E NE VAR CALM PCT TOTAL .000.00 000000 000000 000000 150000 49104 .00.00 000000 000000 000000 000000 .0000 1/2<1 4-10 11=21 22+ 1<2 4-10 11=21 22+ 107 % .00 70T \$
0-3
4-10
11-21
22+
10T \$
5<10
0-3
4-10
11-21
22+
10T \$.3 .7 .2 .0 1.2 3.3 10.0 1.5 1.0 5.7 7.2 31.6 3.6 12.5 .2 .4 12.0 50.1 .0000 .4005 TOT DES 1.3 1197 .6 1.4 13.3 54.7 17.5 2.0 1.3 .0 7.9 100.0

1

PERIOD:	(PRIMARY)	1905-1977
	(DVER-ALL)	1071 1477

TABLE 10

AREA 0030 ANTOFAGASTA 21.85 71.7W

PERCENT	FREQUENCY OF	CEILING	HEIGHTS (F	ET,NH >4/8)	AND
	DCCURRE	NCE OF N	4 <5/8 BY H	JUR	

HOUR (GMT)	000	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
00603	•0	.0	.5	10.6	25.1	20.6	4.0	1.0	.5	.0	62.3	37.7	199
90300	.0	.0	1.0	18.3	32.0	24.4	4.1	. 5	.0	.5	80.7	19.3	197
12615	•0	.5	2.0	12.8	34.2	20.9	7.7	1.5	1.0	1.0	81.6	18,4	196
18621	•0	.0	1.2	11.2	23.1	17.2	7.1	.6	1.2	.0	61.5	38,5	169
TOT PCT	.0	.1	1.2	101	219	159	5.7	.9	.7	.4	547 71.9	214	761 100.0

TABLE 11

TABLE 12

		PERCENT	FREQUEN	ICY VSB	(MM)	BY HJUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00203	.0	.0	.0	.0	10.3	89.7	290	00603	.0	.5	11.3	52.6	36.1	194
90360	.0	.0	.0	.5	18.0	81.5	401	06809	.0	1.0	20.4	60.2	19.4	196
12615	.0	.0	.0	. 8	7.5	91.7	265	12615	.0	2.6	16.1	66.8	17.1	193
18621	•0	.0	.0	.4	9.4	90.2	266	18621	.0	1.2	13.4	50.0	36.6	164
TOT PCT	.0	.0	.0	.4	147	1070	1222	TOT	.0	10	115	431 57.7	201	747 100.0

TABLE 13

PERCENT FREQUENCY UF RELATIVE MUMIDITY BY TEMP

TEMP F 0-29 30-39 40-49 50-59 60-69 70-79 80-89 90-100 D85 FREQ

75/79 .0 .0 .0 .2 .0 .1 .0 .0 .2 .4 .1 20 2.4 65/69 .0 .0 .0 .0 .9 8.1 10.3 4.1 1.3 204 24.8 60/64 .0 .0 .0 .2 14.0 28.1 13.8 8.5 515 62.6 55/59 .0 .0 .0 .0 .7 4.1 4.4 .6 81 9.8 TOTAL 0 1 1 16 193 355 203 54 823 100.0 PCT .0 .1 .1 1.9 23.5 43.1 24.7 6.6

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N NE E SE S SW W NW VAR CALM

.0 .0 .0 .1 .1 .1 .1 .0 .0 .0 .0 .0

.0 .0 .0 .3 1.1 .5 .0 .0 .0 .0 .5

.6 .0 .3 3.9 14.2 4.1 .7 .0 .0 .0 1.0

.9 .4 .9 10.6 34.2 9.0 1.3 .7 .0 4.6

.2 .1 .0 1.2 5.7 1.7 .4 .2 .0 .5

1.7 .5 1.2 16.1 55.3 15.4 2.4 .9 .0 6.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR
HOUR MAX 99% 95% 50% 5% 1% MIN HEAN TOTAL
1085
10803 81 71 68 64 59 58 51 63.7 950
10803 81 69 67 63 58 56 54 62.6 1876
12615 82 73 69 63 59 57 55 63.5 849
1821 81 77 74 67 61 59 55 67.0 2119
1007 82 75 72 64 59 57 51 64.5 5794

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR 0=29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL
(GHT) UBS
00803 .0 .5 17.0 45.9 28.9 7.8 77 218
00809 .0 .4 17.1 46.8 28.6 7.1 77 228
12615 .0 1.4 29.2 42.1 21.1 6.2 75 209
18621 .0 8.3 36.3 36.3 15.5 3.6 71 168
TOT 0 19 202 367 205 54 75 847

PERIOD: (PRIMARY) 1905-1977 (OVER-ALL) 1871-1977

TABLE 17

AREA 0030 ANTOFAGASTA 21.85 71.7W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

		-			-		-					
53	AIR-SEA	57	61	65	69	73	77	81	TOT	W	WO	
56	THP DIF	60	64	68	72	76	80	84		FOG	FOG	
.0	14/16		.0	.2	.0	.0	.1	.0	3	:0	.3	
.0	11/13	.0	.1	.0	.0	.1	.0	.0	2	.0	.2	
.0	9/10	.1	.0	.2	. 1	.5	. 1	.0	9	.0	1.0	
.0	7/8	.1	.1	. 3	.3	.5	.0	.0	12	.0	1.4	
.0	6	.0	. 1	.3	.2	.0	.0	.0	2 9 12 9	0	1.0	
.0	5	.0	. 2	.5	.5	.1	.0	.0	11	-0	1.3	
.0	4	.1	. 6	1.0	.7	.0	.0	.1	22	.0	2.6	
.0	3	.1	1.0	1.4	.7	.0	.0	.0	28	.0	3.3	
.0	2	.5	2.9	3.4	. 2	. 1	.0	.0	61	.0	7.1	
.0	1	.7	4.5	4.8	.1	.0	.0	.0	87	.0	10.1	
.0	0	1.7	8.9	4.2	.3	.0	.0	.0	130	.0	15.2	
.0	2 1 0	2.4	9.2	3.1	.1	.0	.0	.0	128	_0	14.9	
. 1	-2 -3	4.4	8.6	2.3	.0	.0	.0	.0	133	.0	15.5	
.0	-3	3.3	6.2	1.9	.1	.0	.0	.0	98	. 1	11.3	
.0	-4	1.4	4.8	1.2	.0	.0	.0	.0	63	.0	7.3	
.0	-5	1.5	1.7	.7	.0	.0	.0	.0	34	.0	4.0	
. 1	-6	.8	1.0	.2	.0	.0	.0	.0	19	.0	2.2	
. 1	-7/-8	.2	.5	• 1	.0	.0	.0	.0	8	. 0	.9	
. 0	-9/-10	.1	.0	.0	.0	.0	.0	.0	1	.0	- 1	
3	TOTAL		434		30		,	• •	_	1	857	
-		151		226		11	-	1	858		4-1	
. 3	PCT		50.6		3.5	1.3	. 2	.1	100.0	.1	99.9	
3	TOTAL	151	434	226	30	11	2	1	858 100.0	1	9	857 9.9

PERIOD: (DVER-ALL) 1963-1977

									-						
				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIREC	TION V	ERSUS S	EA HEIG	HTS (FT)		
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	,0	.0	,0		.0	.3	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0		.0	. 1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0		.0	. 0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
7	.0	.0	. 0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.00	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25 26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	000000	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	.3	.0	.0	.0	.0	.3
				F								22			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2		.1	.4	.0	.0	.0	.0	.5
1-2	.0	.2	.4	.0	.0	.0	. 6		.8	2.5	.7	.0	.0	-0	4.1
3-4	.0	.0	.0	.0	.0	.0	.0		.0	8.5	2.3	.0	.0	.0	5.1
5-6	.0	.0	.0	.0	.0	.0	- 0		.0	.7	1.7	.0	.0	.0	2.4
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.5	.1	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0000	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32 33-40	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0000		.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	,0	.0	.0	.0	.0		.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0		.0		.0	6.5	0	.0	000000000000000000000000000000000000000	.0	0
TOT PET	. 2	.2	.4	.0	.0	.0	. 8		.9	0.5	5.2	.1	.0	.0	12.7

PERIODI	LUVE			0-7					MUAG	MBER				4054	0020	ANTOFAC	
			1963-1	.971				TABLE	18	(CONT)				AREA			.7W
				PC	T FREQ	DF WIND	SPEED	(KTS)	AND	DIREC	TION	VERSUS	SEA HEIG	HTS (FT			
HGT	1-3			\$ 22-33	34-47					1-3	4-10		SW	34-47			
	1.4	4-10 3.7	11-21	.0	.0	48+	PCT 5.6			.8	1.8			34-47	48+	PCT 2.6	
	2.1	20.9	5.0	.0	.0	.0	28.1			2.3	6.0			.0	.0	9.0	
3-4	.6	7.7	10.0	.3	.0	.0	18.5			.3	2.8			:0	.0	3.7	
5-6	.0	2.1	6.9	.0	.0	.0	9.0			.0				.0	.0	1.3	
7	.0	.0	.6	.5	.0	.0	1.1			.0	.3			.0	.0	.3	
8-9	.0	. 2	. 3	.0	.0	.0	. 5			.0	.0			.0	.0	.0	
10-11	.0	.0	1.1	.0	.0	.0	1.1			.0	.0			.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0				.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
87+	.0	0	0	•0	.0	.0	.0			.0	11.6			.0	.0	.0	
TOT PCT	4.1	34.5	24.4	.8	.0	.0	63.8			3,3	11.0	1.9	.0	.0	.0	16.9	
				W									NW				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10			34-47	48+	PCT	PCT
<1	.0	. 2	.0	• 0	.0	.0	.2			.0	. 3			.0	.0	.3	
1-2	.3	.0	• 0	.0	.0	.0	. 3			.0	.0			.0	.0	.0	
3-4	.3	.0	.0	.0	.0	.0				.0	.0			.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.0			. 0	.0	.0	
7	.0	.0	.0	•0	.0	.0	.0			• 0	.0			.0	.0	.0	
8-9	.0	.0	.0	•0	.0	.0	.0			.0	.0			.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0			:0	.0	:0	
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0			:0	.0	:0	
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			. 0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	. 0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	•0	.0	.0	.0			.0	.0			.0	.0	.0	
41-48	.0	.0	.0	• 0	.0	.0	.0			.0	.0			.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
TOT PCT	.6	. 2	.0	.0	.0	.0	. 8			.0	. 3	.0	.0	.0	.0	.3	95.6

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.6	7.0	,5	.0	.0	.0	16.1	
1-2	5.6	29.0	6.7	.0	.0	.0	41.3	
3-4	1.1	12.9	12.6	.3	.0	.0	26.8	
5-6	.0	3,5	8.8	.0	.0	.0	12.3	
7	.0	. 3	1.1	.5	.0	.0	1.9	
8-9	.0	. 3	. 3	.0	.0	.0	.5	
10-11	.0	.0	1.1	.0	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								373
TOT PCT	15.3	52,8	31.1	, 8	.0	.0	100.0	

			ER-ALL	-	9-197					TABLE			marrons too									
						PERCENT	FRE	DUENCY OF	WA	E HET	GHT (F	T) VS	HAVE P	ERIOD	(SECON	120						
	R IOD	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
	<6	3.0	11.9	15.0	5.2	.9	.6	.7	.1	.1	.0	.0	.0	.0		.0	.0	. 0	.0	.0	253	3
	6-7	.1	1.5	7.4	11.0	6.1	1.6	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	190	5
	8-9	.3	.6	3.6	5.5	4.4	1.5	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	6
10	0-11	.0	.6	2.2	2.2	1.2	.1	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	5
12	2-13	.0	.0	.9	.7	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
	>13	.0	.0	.0	.4	.1	.0	.0	.1	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	5	7
11	NDET	2.2	.4	1.0	2.1	.6		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	3
	DTAL	38	101	203	183	95	29	17	4	5	0	0	0	0	0	0	0	0	0	0	675	4
	PCT	5.6	15.0	30.1	27.1	14.1	4.3	2.5	.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1868-1977

TABLE 1

AREA 0030 ANTOFAGASTA 22.05 71.7W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE	SPRAY BLWG DUS BLWG SND	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7		.0	.0	.0	93.3
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.7	.0	.0	.0	.0	.7	.3	. C	.0	.0	.0	.0	99.0
S	.1	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.3	.0	99.1
SW	. 2	.0	.0	.0	.0	.0	.0	.2	. 9	.0	.0	.0	.9	.0	98.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	.0	91.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4		98.6
TOT PCT	966	.0	.1	.0	.0	.0	.0	.2	.4	.1	.0	•0	.5	.0	98.8

TABLE 2

DEDCENT	EDECHENCY	ne.	WEATHER	DECLIBRENCE	BY HOU	0

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	RAIN	DRZL	FRZG PCPN		OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
£0300 90300	.0	.0	.0	.0	.0	.0	.0	.0	:6	.0	.0	.0	.9	:0	98.7
12615	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	:4	.0	98.4
TOT PCT	.1 989	.0	.1	.0	.0	•0	.0	.2	.4	.1	.0	•0	.5	.0	98.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KN	ots)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	FREQ	SPD	00	03	06	09	12	15	18	21
N	1.2	.6			,0	,0		1.8	3.6	.4	2.9	2.4	4.4	2,3	.0	1.1	. 6
NE	.6	.7			.0	.0		1.3	4.3	.5	1.9	1.3	2.8	2.4	2.9	.7	.5
E	1.0	.9	.1	.0	.0	.0		2.0	4.4	.8	3.8	2.8	3,8	2.4	2.2	1.7	. 4
E SE	2.6	10.9	3.3	.2	.0	.0		17.0	7.7	15.8	21.2	17.1	19.2	20.6	22.8	15.3	15.0
S	10.3	33.0	9.2	.3	.0	.0		52.9	7.3	60.0	44.2	48.7	43.1	49.0	58.8	55.5	60.7
SW	4.0	8.1	1.0		.0	.0		13.1	5.8	14.0	21.2	11.2		9.1	7.4	16.8	17.1
W	.8	. 8		.0	.0	.0		1.6	4.2	2,2	.0	1.6	1.6	.9	2.9	1.6	1.9
NW	.6	.6		.0	.0	.0		1.2	4.0	.9	1.0			1.6	.0	1.0	.5
VAR	.0	.0	.0	.0	.0	.0		.0	•0	.0	.0	.0	.0		.0	.0	. 0
CALM	9.1	• •	• •		• •			9.1	•0	5.4	3.8		15.6		2.9	6.3	3.3
TOT OBS	1700	3138	776	32	0	0	5646		6.2	892	26	1005	774	789	34	1577	549
TOT PCT		55.6	13.7	.6	.0	.0		100.0				100.0					

TA	BL	34

WND DIR	0=6	WIND 7-16	SPEED 17-27	(KNOTS) 28-40	41+	TOTAL 085	PCT	MEAN SPD	00	06 09	12 15	18 21
N NE	1.6	.2	:	:0	.0		1.8	3.6	.5	3.3	2.2	1.0
	1.1				.0		1.3	4.3	.6	2.0	2.5	.6
	1.7	. 2	.1	.0	.0		2.0	4.4	.9	3.2	2.4	1.4
SE	8.3	7.7	1.0		.0		17.0	7.7	15.9	18.0	20.7	15.2
5	27.9	22.7	2.2	.1	.0		52.9	7.3	59.6	46.2	49.5	56.9
SW	8.8	4.2	.1		.0		13.1	5.8	14.2	9.9	9.0	16.9
W	1.4	.2	.0	.0	.0		1,6	4.2	2.1	1.6	.9	1.7
NW	1.0	.1		.0	.0		1.2	4.0	.9	1.5	1.5	.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.1		•				9.1	.0	5.3	14.3	11.3	5.5
TOT DBS	3443	2004	191	8	0	5646		6.2	918	1779	823	2126
TOT PCT	61.0	35.5	3,4	.1	.0		100.0				100.0	

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DECEMBER

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1868-1977

TABLE 4

AREA 0030 ANTOFAGASTA 22.05 71.7W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				MIND	SPEED (KNOTEL			PCT	TOTA
HUUR	CALM	1-3	4-10	11-21		34-47	48+	MEAN	FREQ	DBS
00603	5.3	16.0	58.0	19.7	1.0	.0	.0	7.4	100.0	918
90300	14.3	25.0	51.0	9.4	. 3	.0	.0	5.2	100.0	1779
12615	11.3	24.9	51.4	11.8	. 6	.0	.0	5.7	100.0	823
18821	5.5	18.3	60.0	15.6	. 6	.0	.0	6.8	100.0	2126
TOT	514	1186	3138	776	32	0	0	6.2		5646
DOT	0 1	21.0	65.4	12 7	6	. 0	. 0		100-0	

TABLE

P	CT FRE			DOTREC		EIGHTHS)			PERCEN	TAGE F	REQUEN	CY DF	CEILIN NH <5/	B BY	IND D	IRECTI	>4/8) ON	
WND DIR	0=2	3-4	5-7	8 & n85CD	TOTAL	CLOUD	000 149	150 299	300 599	600	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.2	.0	•1	.4		5.7	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.2	
NE	. 2	.0	.3	.6		6.6	.0	.0	.0	.3	.4		.0	.0	.0	.0	. 3	
E	.2	.0	. 8	.6		6,5	.0	.0	.0	.0	. 5	. 8	.1	.0	.0	.0	.3	
SE	. 8	1.8	5.8	6.7		6.5	.0	.0	. 5	. 8	5.3	3.1	. 5	. 1	.0	.1	4.7	
S	10.8	7.1	15.3			5.7	.1	.0	. 8	5.2	16.8	7.0	2.5	. 3	.1	.3	25.1	
SW	2.5	2.2	4.0			5.4	.0	.0	.0	1.1	3.9	1.9	. 3	.0	.0	.1	6.2	
W	.1	.0	.5	. 4		6.7	.0	.0	.0	.1	. 5	.1	. 1	.0	.0	.0	.1	
NW	*	. 1	.4	.0		5.4	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	. 3	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4	1.6	2.3	2.7		5.4	.0	.0	.0	.7	2.1	. 9	.6	.0	.0	.0	3.7	
TOT OBS	114	90	207	288	699	5.8	1	0	9	58	209	99	29	3	1	4	286	699
TOT PCT	16.3	12.9	29.6	41.2	100.0		.1	.0	1.3	8.3	29.9	14.2	4.1	.4	.1	.6	40.9	100.0

TABLE 7

					VSBY (NM)			
C	EILING	- OR	- OR	- DR	- OR	- OR	- OR	- DR	. 0
(PEFT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>
• OR	>6500	.7	.8	.8	1.3	.8	.8	.8	
. DR	>5000	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.
- OR	>3500	5.1	5.3	5,3	5.3	5.3	5.3	5.3	5.
- DR	>2000	18.4	19.2	19.2	19.2	19.2	19.2	19.2	19.
- TR	>1000	45.4	49.0	49.0	49.0	49.0	49.0	49.0	49.
. OR	>600	52.9	57.2	57.2	57.2	57.2	57.2	57.2	57.
. 08	>300	54.2	58.4	58.4	58.4	58.4	58.4	58.4	58.
. OK	>150	54.2	58.4	58.4	58.4	58.4	58.4	58.4	58.
- DR	> 0	54.4	58.6	58.6	58.6	58.6	58.6	58.6	58.
	TOTAL	387	417	417	417	417	417	417	41

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0 1 2 3 4 5 6 7 8 OBSCO OBS 8.2 9.0 8.2 8.9 6.8 4.8 7.2 14.2 32.7 .0 790

0	•	u	c	D	

							DEC	EUDEK							
PERIOD: (PRIMARY) 1 (OVER-ALL) 1	907-1977						TAI	BLE 8				ARE	A 0030	ANTOFA	71.7
		P	ERCENT	PREC	OF WIN	D DIRE	CTION TH VAR	VS DCCU	RRENCE	E OK N	ON-DCC	URRENC	E OF		
VSBY		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL		
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	TOT &	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	TOT \$.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
2<5	NO PCP	.0	.0	.0	.0	.1		.0	.0	.0	.0	.1			
	TOT #	.0	.0	.0	.0	.1		.0	.0	.0	.0	.1			
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
5<10	NO PCP	.0	. 8	,3	2.2	5,6	1.8	.3	.1	.0	.7	11.8			
	TOT \$.0	. 8	.3	2.2	5.6	1.8	, 3	.1	.0	.7	11.8			
	PCH	.0	.0	.0	.1	.1		.9	.0	.0	.0	.2			
10+	NO PCP	. 5	. 8	1.5	12.8	53.9	10.2	. 9	. 5	.0	6.6	87.9			
	TOT %	. 5	.8	1.5	13.0	54.0	10.2	. 9	.5	.0	6.6	88.1			
	TOT OBS												965		
	TOT DOT		1 4	1 0	15 2	80 7	12 1	1 2	. 4	•	7 4	100 0			

(SBY	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL
	0-3	.0	•0	.0	.0	.0	.0	.0	.0	.0	.0	.0	003
(1/2	4-10	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0	•0	.0	.0	.0	.0	.0	.0	.0	.0		
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	•0	•0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	• 0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	•0	•0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
2<5	4-10	.0	.0	.0		.3		.0	.0	.0		.3	
	11-21	.0	•0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	-1	•0	•0		.3	•	.0	.0	.0	.0	.5	
	0-3		.2	.1	.3	1.5	.5	.1		.0	.9	3.5	
5<10	4-10	.1	• 4	.1	1.3	4.0	1.5	.1	.2	.0		7.7	
	11-21	.0		• 1	.4	.6	•	.0	.0	.0		1.2	
	22+	.0	•0	•0	.0	.0	.0	.0	.0	.0	_	.0	
	TOT \$.1	•6	.3	2.0	6.1	2.0	.2	.2	.0	.9	12.5	
	0-3	.5	• 2	.4	1.1	5.6	2.4	.3	.3	.0	7.2	18.0	
10+	4-10	.7	.5	.8	7.2	31.2	6.6	.6	. 4	.0		47.9	
	11-21	.1	• 1	.2	3.4	15.2	1.6	.1	.1	.0		20.7	
	22+	.0	•0	.0	0	3	1	.0	.0	.0		. 4	
	TOT \$	1.3	. 8	1.4	11.6	52.4	10.6	1.1	. 8	.0	7.2	87.1	

DECEMBER

PERIOD: (PRIMARY) 1907-1977 (DVER-ALL) 1868-1977

TABLE 10

AREA 0030 ANTOFAGASTA 22.05 71.7W

PERCENT	FREQUENCY	DF	CEILING	HEIGHTS	(FEET, NH	>4/81	AND

HOUR (GMT)	000	150 299	300 599	999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8	TOTAL	
60300	.0	.0	2.1	8.5	26.5	12.2	4.2	, 5	.0	.0	54.0	46.0	189	
06609	.0	.0	2.7	7.7	34.4	11.5	4.4	.0	.0	1.6	62.3	37.7	183	
12615	.0	.0	•0	7.1	32.5	20.3	4.1	1.0	.5	.0	65.5	34.5	197	
18621	.6	.0	•0	8.0	20.1	9.2	2.9	.0	.0	1.1	42.0	58.0	174	
PCT	.1	.0	1.2	58 7.8	212	100	3.9	.4	.1	.7	418 56.3	325	743	

TABLE 11

TABLE 12

		PERCENT	FREQUENC	Y VSBY	(NM)	BY HOUR		CUMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00203	•0	.0	.0	.4	9,5	90.1	283	00803	.0	2.2	11.0	45.3	43.6	181
90360	.0	.0	.0	.5	16.5	83.0	411	90300	.0	2.8	10.7	53.4	36.0	178
12615	.0	.0	.0	1.0	12.9	86.0	286	12615	.0	.0	7.2	58.8	34.0	194
18621	•0	.0	.0	.0	9.1	90.9	287	18821	.6	.6	9.4	36.5	54.1	159
TOT	0	.0	0	6	158	1103	1267	TOT	1	10		349	295 41.4	712

TABLE 13

TABLE 14

	PERC	ENT FR	EQUENC	Y OF R	ELATIV	HUMI	DITY B	Y TEMP	TOTAL	PCT		PERC	ENT FR	EQUENC	Y OF W	IND DI	RECTIO	N BY TI	EMP	
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	DBS	FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.1	.2	.1	.0	.0	4	.5	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0
75/79	.0	.0	.1	. 6	.7	1.1	.4	.1	25	3.0	.0	.0	.4	.1	2.2	.3	.0	.0	.0	.0
70/74	.0	.0	.1	1.8	4.9	7.6	3.0	1.5	159	18.8	.1	, 5	.4	2.4	11.2	1.8	.1	. 2	.0	2.0
65/69	.0		.0	1.2	9.7	25,2		3,3	431	51.1	.7	.4	1.3	8.4	27.1	7.2	. 8	.6	.0	4.6
60/64	.0		.0	.1	3.3	10.8		3.4	223	26.4	.0	.5	.1	4.1	16.5	3,1	.6	.1	.0	1.3
55/59	.0		.0		.0	.0	.1	.1	2	.2	.0	.0	.0	.0	. 2	.0	.0	.0	.0	.0
TOTAL	0	0	2	32	159	378		72	844	100.0										
PCT	.0	.0	.2	3.8	18.8	44.8	23.8	8.5			.7	1.5	2.3	15.1	57.6	12.5	1.5	1.0	.0	7.9

TABLE 15

__ __ __ ___

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HDUR 0-29 30-59 60-69 70-79 80-89 90-100 MEAN TOTAL
(GMT) 085
00803 .0 1.5 12.5 51.0 27.5 7.5 77 200
00809 .0 8 13.3 39.3 33.1 13.3 79 248
12815 .0 2.4 26.0 41.3 23.1 7.2 75 208
12815 .0 12.0 24.0 46.6 10.6 72 208
100 0 35 162 383 207 77 76 864

n	E	•	c	M	A	F	R	

PERIOD: (PRIMARY) 1907-1977 (OVER-ALL) 1868-1977	TABLE 17	AREA 0030 ANTOFAGASTA 22.05 71.7W
TOTAL TOTAL TOTAL		22103 .1114

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F) 57 69 72 73 76 77 80 AIR-SEA 53 56 61 65 68 81 84 TOT FOG FOG 56 60 64 68 72

.0 .0 .0 .0 .0 .0 .0
.0 .0 .0 .0 .0 .0
.0 .0 .0 .1 .9
.0 .0 .0 .1 .6 .7
.0 .0 .0 .6 1.1
.0 .0 .3 .7 .7
.0 .0 .3 2.7 2.4
.0 .0 .0 .8 4.3 2.0
.0 .0 .8 4.3 2.0
.0 .0 .8 4.3 2.0
.0 .0 .8 4.3 2.0
.0 .0 .8 4.3 2.0
.0 .0 .8 4.3 2.0
.0 .0 .2 .4 6.1 2.0
.0 .1 .2 3 4.1 2.0
.0 .3 2.3 2.3 .9
.0 .0 .3 2.3 2.3 .9
.0 .0 .2 .4 .1
.0 .0 .0 .2 .4 .1
.0 .0 .0 .2 .4 .1
.0 .0 .1 .0 .0 .0
.1 226 401
.1 1.3 25.0 44.4 22.3 14/16 11/13 9/10 7/8 6 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7/-8 -11/-13 1346344336643231000000 483 .1 .6 1.9 2.2 2.1 2.2 5.8 7.6 11.1 14.5 13.8 15.9 8.9 6.1 3.8 1.0 15 17 20 20 19 20 52 69 100 131 125 144 80 55 27 7

903 PCT 100.0

PERIOD: (DVER-ALL) 1963-1977

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND	DIREC	CTION V	ERSUS S	EA HEIG	HTS (FT)		
HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PCT			1-3	4-10	11-21	NE 22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	, 3			.6	.0	.0	.0	.0	.0	.6
1-2	.2	. 2	.2	.0	.0	.0	,6			.1	.1	.1	.0	.ŏ	.0	.2
3-4	.0	.0	.0	.0	.0	.0	,0			. 0	.0		.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	•0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	- 0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	- 0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0		.0	.0
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.2	. 2	•0	.0	.0	, 9			.6	.4	.1	.0	.0	.0	1.1
				E									SE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	SE 22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3			.9	1.7	.0	.0	.0	.0	2.7
1-2	.0	. 4	.0	.0	.0	.0	. 4			.4	4.8	2.1	.0	.0	.0	7.3
3-4	.0	.0	.0	.0	.0	.0	0000			.0	2.4	2.7	.0		.0	5.1
5-6	.0	.0	.0	.0	.0	.0	.0			.0	.1	1.1	.0	0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.1	.0		.0	.1
8-9	.0	.3	.0	.0	.0	.0	. 3			.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0.	.0
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	:0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	,0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		18.	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	. 0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	0	.0	.0
TOT PCT	.3	.7	.0	.0	.0	.0	1.0			1.3	9.0	6.0	.0	.0	.0	16.3

									DECEMBER							
PERIOD:	(OVE	R-ALL)	1963-1	1977				TABLE	18 (CONT	,			AREA		ANTOFAC	ASTA .7W
				PC	T FREQ DF	WIND	SPEED	(KTS)	AND DIRE	CTION	VERSUS	SEA HETO	HTS (FT			
HGT	1-3	4-10	11-21	5 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	3.1	3.5	.0	.0	.0	.0	6.6		1.4	1.0			.0	.0	3.4	
1-2	2.7	19.8	4.7	.0	.0	.0	27.1		1.0	4.			.0	.0		
3-4	.3	6.4	8.5	.2	.0	.0	15.3		.0	2.4			.0	.0		
5-6	.0	.5	4.3	.0	.0	.0	4.8		.0	. (.0	.0		
7	.0	.2	. 8	.0	·ŏ	.0	1.0		.0				.0	.0		
8-9	.0	.3	. 3	.3	. ŏ	.0	.,9		.0				.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0		
12	.0	.0	.0	.3	.0	.0	. 3		.0	. (. 0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	. (0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	. (.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	. (.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	. (. 0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	. (.0		.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	
TOT PCT	6.0	30.7	18.5	.8	.0	.0	56,0		2.4	8.6			.0	.0	13.3	
				W								NW				TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	.0	.0	.0	.0	.0	.3		.0				.0	.0		
1-2	.0	. 8	.0	.0	.0	.0	. 8		.0				.0	.0	.1	
3-4	.0	.0	. 2	.0	.0	.0	. 2		.0	. (.0	.0		
5-6	.0	.0	.0	.0	.0	.0	.0		.0	. (0	.0		
7	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0		.0	. (. 0	.0		
12	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0		
17-19	.0	. 0	.0	.0	.0	.0	.0		.0	. (.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0		
26-32	.0	.0	.0		.0	.0	.0		.0	. (.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0				.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	. (0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	. (.0	.0		
71-86		.0					. 0		.0	. (.0		
							.0						.0			
							1.3		.0				.0	.0		90.5
71-86 87+ TOT PCT	.0	.0	.0	•0	.0	.0	1.3		.0	. (.0	.0	.0	.0)

		MIND	SPEED	(KTS)	VS SEA	HEIGHT	(PT)		
н	GT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
	1	17.4	7.3	.3	.0	.0	.0	25.0	003
	-2	4.8	30.1	7.6	.0	.0	.0	42.4	
	-4	.3	11.0	12.4	.3	.0	.0	23.9	
	-6	.0	. 8	5.3	.0	.0	.0	6.2	
	7	.0	. 3	. 8	.0	.0	.0	1.1	
8	-9	.0	. 6	.3	.3	.0	.0	1.1	
	-11	.0	.0	.0	.0	.0	.0	.0	
	2	.0	.0	.0	.3	.0	.0	.3	
	-16	.0	.0	.0	.0	.0	.0	.0	
	-19	.0	.0	.0	.0	.0	.0	.0	
	-22	.0	.0	.0	.0	.0	.0	.0	
	-25	.0	.0	.0	.0	.0	.0	.0	
	-32	.0	.0	.0	.0	.0	.0	.0	
	-40	.0	.0	.0	.0	.0	.0	.0	
	-48	.0	.0	.0	.0	.0	.0	.0	
	-60	.0	.0	.0	.0	.0	.0	.0	
61	-70	.0	.0	.0	.0	.0	.0	.0	
71	-86	.0	.0	.0	.0	.0	.0	.0	
	87+	.0	.0	.0	.0	.0	.0	,0	
									356
TOT	PET	22.5	50.0	26.7	.8	.0	.0	100.0	

PERIO): (DV	ER-ALL	194	9-197	,				т	ABLE 1	9											
					PERCENT	FRE	QUENCY	OF 1	WAVE	HEIGH	T (F1	r) vs	WAVE P	ERIOD	(SECON	(\$0						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11		12 1	3-16 1	7-19	20=22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	2.3	8.6	13.4	5.6	2.0	2	.2		.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	207	3
6-7 8-9	.0	1.1	3.7	6.1	4.2	2.2			. 3	.0	.0	• 2			.0	.0	.0	.0	.0	.0	179	6
10-11	.0	.0	1.1	2.8	1.4	1.7	.5		.0	.0	.0	.0				.0	.0	.0	.0	.0	48	6
12-13	.0	.0	.6	.6	.0	.5	.5	1 3	. 2	.0	.0	.0				.0	.0	.0	.0	.0	15	6
>13 INDET	.0	.0	.0	.0	.0	.0	.0		. 3	.0	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	2	11
INDET	3.3	1.7	3.1	1.6	.5	. 8	.2		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	3
TOTAL	36	77	200	178	82	42	18		5	1	1	1	0	0	0	0	0	0	0	0	641	4
PCT	5.6	12.0	31.2	27.8	12 8	6.6	2.8		. 8	. 2	. 2	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

TABLE 1

AREA 0030 ANTDFAGASTA 22.15 71.6W

PERCENT FREQUENCY OF WEATHER DECURRENCE BY WIND DIRECTION

			P	RECIPI	TATIO	N TYPE					DTHER	WEATHER	PHEND	MENA	
WND DIR	RAIN	RAIN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST	THOR	FOG WO PCPN	FOG WG PCPN PAST HR	SMOKE	SPRAY BLWG DUS BLWG SND	
N NE	1.0	.0	1.1	.0	.0	.0	.0	1.1	:3	1.0	1.2	:0	.0	.0	96.3
E SE	.6	.0	.6	.0	.0	.0	.0	1.2	.6	.0	.0	•0	.5	.0	98.3
SW	.1	•1	.4	.0	.0	.0	.0	1.2	.4	.1	.2	•0	1.3	:	98.3
NW W	.0	.0	1.2	.0	.0	.0	.0	1.2	.0	.5	.5	.0	1.9	.0	96.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	:0	.0	.7	.0	2.7	.0	95.2
TOT PCT	12216	.1	.5	.0	.0	.0	•	.7		.1	.3	.0	.7		97.7

TABLE 2

DERCENT	EDECLIENTY	ne	WEATHED	DECLIBRENCE	04	HOUR

			P	RECIPI	TATIO	N TYPE					OTHER	WEATHER	PHEND	MENA	
HOUR (GMT)	RAIN	SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT	PCPN PAST HOUR	THOR	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE		
00£03 06£09 12£15 18£21	.1	.1 .2 .1	.6 .9 .5	.0	.0	.0	.0	1:3	.4 .2 .8 .2	.0	.3 .4 .4 .2	•0	.6 .8 1.0	.0	97.9 97.0 97.2 98.7
TOT PCT TOT OBS:	12549	•1	.6	.0	.0	•0	•	.8	.4	.1	.3	.0	.7		97.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

		WI	ND SPE	ED (KN	DTS)								HOUR	(GMT)			
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	PCT	SPD	00	03	06	09	12	15	18	21
N	1.3	1.5	.2		.0	.0		3.0	4.6	1.8	1.4	3.9	5,4	3,5	1.4	2.2	2.0
NE	. 8	.9	.1		.0	.0		1.8	4.4	. 8	2.1	1.8	3.3	2.6	2.2	1.3	1.1
E	1.0	1.2	. 2		.0	.0		2.5	5.2	1.3	, 3	2.5	4.3		1.8	2,2	. 9
SE	3.0	10.5	4.9	. 5		.0		19.0	8.7	15.8	16.9		19.7	22.8	21.6		17.3
S	8.8	28.9	11.2	. 9		.0		49.8	8.1	56.2	57.0		40.6	45.7	54.1	52.0	55.5
SW	2.9	6.8	1.2	.1		.0		11.0	6.3	13.3	15.5		7,7	8.0	10.4		14.3
W	. 8	. 8	.1	.0	.0	.0		1.7	4.2	1,9							
NW	. 9		.1								.8		1.9				1.8
		1.1			.0	.0		2.1	4.6	1.4	. 9		2.7	1.7	. 4	2.0	2.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.1							9.1	.0	7,5	5.1		14.5	10.7	5.7	6.4	4.5
TOT OBS							60617		6.9	9745	288		8266	8775			5417
TOT PCT	28.9	51.8	17.8	1.4	• 1	.0		100.0							100.0	100.0	

PARI	24

WND DIR	0-6	7-16	SPEED 17-27		41+	TOTAL	PCT	MEAN	00	HDU1	12 15	18
						•					13	-1
N	2.4	.6			.0		3.0	4.6	1.8	4.6	3.5	2.1
NE	1.4	.6		.0	.0		1.8	4.4	.8	2.4	2.6	1.3
E	1.9	.5	.1		.0		2.5	5.2	1.2	3.3	3.6	1.9
SE	8.2	8.8	1.8	.1			19.0	8.7	15.9		22.8	19.4
5	23.4	22.6	3.6	.2			49.8	8.1	56.2	44.7	45.9	52.9
SW	6.9	3.8	. 3		.0		11.0	6.3	13.3	9.2	8.1	12.8
W	1.5	. 2		.0	.0		1.7	4.2	1.9	2.0	1.3	
NW	1.6	.4			.0		2.1	4.6	1.4	2.6	1.6	1.6
VAR	.0	.0	.0	.0	.0		.0		1.0			2.1
CALM	9.1		••					.0			0	.0
TOT DAS	***						9.1	.0	7.3	12.9	10.6	5.9
						60617		6.9	10033			21988
TOT PCT	56.5	37.3	5,8	.3			100.0		100.0	100.0	100.0	100.0

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO), SOUTH A--ETC(U) FEB 79

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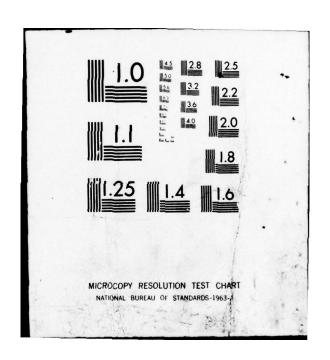






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ANNUAL

PERIOD: (PRIMARY) 1905-1978 (OVER-ALL) 1855-1978

TABLE 4

AREA 0030 ANTOFAGASTA 22.15 71.6W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				MIND	SPEED (KNOTS)			PCT	TOTAL
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	DBS
00403	7.5	15.0	52.9	22.6	2.0		.0	7.8	100.0	10033
06609	12.9	23.0	48.9	14.0	1.2	.1	.0	6.0	100.0	19513
12415	10.6	21.5	49.9	16.8	1.1	.1	.0	6.5	100.0	9083
18621	5.9	18.3	54.7	19.5	1.6	.1	.0	7.4	100.0	21988
TUT								6.9		60617
PCT	9.1	19.7	51.8	17.6	1.4	.1	.0		100.0	

TARLE 5

TABLE 6

			0.5	100									00000					
P	CT FRE			LOUD A		(EIGHTHS)			PERCEN	TAGE F	REQUEN	CY OF	CEILIN NH <5/	B BY	IND D	FT,NH :	>4/8) DN	
WND DIR	0=2	3-4	5-7	9 6	TOTAL	CLOUD COVER	000 149	150 299	300 599	600 999	1000	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	
N	.2	•1	.3	.9		6.1	.0	.0		.2	.6	.3	.1				.3	
NE	.1	• 1	.1	. 6		5,8		.0		.1	.3	.1				.0	.3	
E	.2	.1	.4	.7		6.1	.0			.1	.5	.2	.1			.0	.5	
SE	1.4	1.6	5.3	9.3		6,5	.1	.1	.3	2.2	6.0	3.4	.9	.3	.1	.1	4.4	
S	9.8	5.8	14.9	27.9		5.9	.1	.2	.6	6.9	18.3	9.2	2.4	.7	.2	. 3	19.4	
SW	2.2	1.3	2.6	5.5		5,8			.1	1.4	3.6	1.5	.4		.1	.1	4.3	
	.2	.2	• 2	.6		5,6		.0		.1	.4	.2			.0	.0	.4	
NW	. 2	.1	.2	.5		5.7	.0	.0		.1	.3	.2	.1	.0	.0	.0	.3	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	.6	1.2	3.5		5,9	.0		.1	.7	2.0	1.1	.3			.1	2.0	
TOT GBS	•••		•••	•••	9406	6.0	••											9406
TOT PCT	15.5	9.9	25.2	49.4	100.0		.2	.3	1.1	11.9	32.0	16.2	4.3	1.1	.5	.6	31.9	100.0

TABLE 7

CUMULATIVE	PCT	FREQ	OF SIMULTANEOUS OCCURREN	NCE
			INH SAIRS AND VERY INMS	

				VSBY (NM				-
CEILING	• OR	- OR	a DR	• DR	• OR	- OR	• OR	- DR
(FERT)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
- OR >6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
■ DR >5000	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1
■ DR >3500	5.6	6.3	6.4	6.4	6.4	6.4	6.4	6.4
■ DR >2000	20.4	22.5	22.6	22.6	22.6	22.6	22.6	22.6
- DR >1000	49.4	54.5	\$4.6	54.6	54.0	54.6	54.6	54.6
■ OK >600	59.8	66.2	66.4	66.4	66.5	66.5	66.5	66.5
. DR >300	60.7	67.2	67.5	67.5	67.5	67.5	67.5	67.5
- DR >150	61.0	67.6	67.8	67.8	67.9	67.9	67.9	67.9
- 50 > 0	41.1	47.7	40.0	48 0	A9.1	48.1	48 1	40.1

TUTAC NUMBER OF OBS: 9585 PCT FREQ NH <5/8: 31.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

7.4 6.8 6.6 5.8 5.1 4.3 7.8 11.9 44.2 .1 10429

A	M	M	11	A	L	

								AIN	HUME						
PER IND:	(PRIMARY) (DVER-ALL)	1905-1978 1855-1978						TA	BLE 8				AREA	22.15	GASTA 71.6W
			PE	RCENT	PREC	OF WIN	D DIRE	CTION TH VAR	VS DCCI	URRENCE ALUES	F VIS	ON-DCC	URRENCE Y	OF .	
	VSBY (NM)		N	NE	E	SE	S	SW	W	NK	VAR	CALM	PCT	TOTAL OBS	
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
		TOT &	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
		PCP	.0	.0	.0		.0	.0	.0	.0	.0	.0			
	1/24	NO PCP	.0	.0	.0	.0		•0	• •	.0	.0		.1		
		TOT \$	•	.0	.0	•		•	•	.0	.0	•	.1		
		PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	1<2	NO PCP	.0		.0					.0	.0		.1		
		TOT %	.0		.0				•	.0	.0	•	.1		
		PCP	.0	.0	.0				.0	.0	.0	.0			
	2<5	NO PCP	.1				.2	.1	•		.0		.5		
		TOT \$.1	•		.1	.2	.1	•	•	.0	•	.6		
		PCP				.1	.1	.1		.0	.0		.3		
	5<10	NO PCP	.6	.3	.2	1.9	5.0	1.5	.3	.2	.0	1.2	12.1		
		TOT \$.6	.3	. 2	2.0	6.1	1.6	,3	.0	.0	1.2	12.4		
		PCP				.1	51.4			.0	.0		.4		
	10+	NO PCP	1.2	.8	1.2	14.8	51.4	9.9	1.2	. 8	.0	5.1	86.5		
		TOT \$	1.2	.9	1.2	14.9	51.6	10.0	1.2	. 8	.0	5.1	86.9		

TOT DBS TOT PCT 1.9 1.2 1.4 16.9 57.9 11.7 1.5 1.1 .0 6.4 100.0

....

			1	PERCEN			ND DIR				ED		
VSBY (NM)	SPD	N	NE	E	SE	s	SW		NW	VAR	CALM	PCT	TOTAL
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	•0	•0	.0	.0	.0	.0	.0	.0	.0	.0	
	0-3	.0	.0	.0	.0			.0	.0	.0			
1/2<1	4-10	•	.0	.0					.0	.0			
	11-21	.0	•0	•0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	•0	.0	.0	.0	.0	.0	.0	.0	2	.0	
	TOT \$		•0	•0		•	•	•	.0	.0	•	•	
	0-3	.0	.0	.0	.0	.0	.0		.0	.0			
1<2	4-10	.0		.0				.0	.0	.0			
	11-21	.0	.0	•0	.0			.0	.0	.0			
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$.0		•0		•	•	•	.0	.0	•	•1	
	0-3		.0					.0	.0	.0	.1	.2	
2<5	4-10				.1	.2	.1			.0		.5	
	11-21		•0	.0					.0	.0		•1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT \$	-1			•1	.2	.1	•	•	.0	.1	.7	
	0-3	.3	.1	.1	2	.9	.4	.1	.1	.0	1.5		
5<10	4-10	.3	.2	.1	1.0	3.5	1.1	.2	.2	.0		6.6	
	11-21				.5	1.2	.1	.0		.0		2.0	
	22+					.1		.0	.0	.0		.2	
	TOT \$.6	.3	.2	1.8	5.7	1.6	.2	.3	.0	1.5	12.2	
	0-3	.5	.3	.3	1.1	4.9	1.7	.3	.3	.0	7.0		
10+	4-10	1.0	.6	.7	7.3	28.6	7.4	.9	.7	.0		47.2	
	11-21	.1	• 1	.2	4.7	15.1	1.7	.1	•	.0		22.0	
	22+				.3	.9	1	.0	.0	:0		1.2	
	TOT \$	1.6	1.0	1.1	13.4	49.5	10.9	1.3	1.0	.0	7.0	86.9	
	OT 085												15951
1	OT PET	2.3	1.3	1.4	15.3	55.5	12.7	1.6	1.3	.0	8.6	100.0	

N			

									ANNL	JAL							
PER100:	(PRIMARY) (OVER-ALL)	1905-1 1655-1							TABLE	10				AREA		ANTOF	AGASTA 71.6W
					PER	CENT F	REQUEN	CURREN	CEILINGE OF	NH <5/	HTS (F	EET, NH	>4/8)	AND			
		HOUR (GMT)	000 149	150	300 599	600	1000	2000	3500 4999	5000	6500	8000+	TOTA	L NH	4 467	TOTA	

(GMT)	149	150 299	300 599	999	1999	2000 3499	3500 4999	5000	7999	8000+	TOTAL	NH 45/8	DOTAL
60300	.2	.4	1.2	10.3	28.6	14.6	3.8	. 8	.5	.3	60.7	39.3	2369
06609	.1	-1	1.3	11.9	34.1	15.6	4.0	.6	.3	.8	68,9	31.1	2560
12615	.1	.5		13.9	35.6	18.6	4.8	1.5	.4	,6	76.9	23.1	2565
18621	.4	.3	.9	9.7	26.2	14.5	4.0	1.3	.6	.5	58,4	41.6	2353
TOT PCT	.2	.3	1.1	11.5	31.3	15.9	4.2	1.0	.4	.6	66,5	33,5	9847

			T	48LE 1	1							TABLE	12		
		PERCENT	FREQUENC	Y V58Y	(NM)	BY HOUR		C	UMULAT					VSBY (NM)	
HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL		HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL
00603	.0		.2	. 8	11.8	87.3	3709	,	00803	.2	1.8	12.6	49.7	37.7	2300
90360	.0	.1	.1	.8	15.4	83.6	5292	(90300	.1	1.6	14.0	56,3	29.7	2505
12615	.0	.1	.1	.8	11.4	87.6	3566		12615	.1	1.5	15.8	62,3	21.9	2520
18821	.0			.6	10.3	89.0	3719		18821	, 3	1.6	12.0	48.5	39.4	2260
TOT	.0	.1	.1	. 8	12.5	86.5	16286		TOT	.2	1.6	13.7	54.5	31.9	9585

					τ,	ABLE 13	,									TABL	E 14				
		PERCE	NT FR	EQUENC	Y OF R	ELATIVE	HUMI	ITY B	Y TEMP	TOTAL	PCT		PERC	ENT FR	EQUENC	Y OF 1	IND DI	RECTION	N BY T	EMP	
1	TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	85/89	.0	.0		.0		.0	.0	:0			.0	.0	.0				.0	.0	.0	.0
	80/84	.0	.0	*	. 1	. 1	.1		.0		.3				• 1	• 2		*		.0	.0
	75/79	.0			.5	.7	.9	.2	.1		2.3	.0		.1	.4	1.3	.3	.1		.0	.2
	70/74	.0		.1	. 9	4.3	5.0	2.5	1.1		13.8	.1	.2	.2	2.9	7.8	1.5	.2	.1	.0	. 8
	65/69	.0	.0		.7	5.9	10.9	7.3	2,2		27.0	.4	.3	.5	4.8	15.5	3,3	.4	.3	.0	1.6
	60/64	.0	.0		.6	7.7	16.2	9.6	2.6		36.7	.8	.5	.6	6.9	20.0	4.2	.6	.5	.0	2.8
	55/59	.0	.0	.0	. 2	2.0		6.9	1.7		19.2	.7	.3	.2	2.5	11.1	2.4	.4	.3	.0	1.4
	50/54	.0	.0	.0	.0			. 3	.1		.6	.1		.0		. 4	.1			.0	
	TOTAL		••	••	,,			••	•-	10789				••	-	•	••		-	••	-
	PCT	.0		.2	2,8	20.6	41.7	26,8	7,8			2.0	1.3	1.5	17.5	56.2	11.7	1.6	1.2	.0	6.8

TARLE 15										TABLE 16								
	MEANS,	EXTREMES	AND	PERCE	TILES	OF TE	P (DE	G F) E	Y HOUR		PERC	ENT FRE	QUENCY	OF REL	TIVE H	UMIDITY		
HOUR (GMT)	MAX	99%	95%	50%	5%	18	HIN	MEAN	TOTAL	HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00803	86	71	69	64	60	58	46	63.7	9930	00803	.0	1.5	18.0	43.8	29.4	7.4	77	2644
06609	84	69	67	63	58	57	48	62.5	19615	00809	.0	1.3	13.5	40.2	34.5	10.5	79	3242
12615	84	72	69	64	59	57	50	63.4	8978	12615	.0	2.3	21.7	41.5	26.2	8.3	76	2704
18621	89	77	73	67	61	59	50	66.5	20790	18621	.0	7.6	30.5	41.3	15.8	4.9	72	2520
TOT	89	74	71	64	59	57	46	64.2	59313	TOT	0	340	2265	4603	3011	891	76	11110

ANNUAL

PERIOD: (PRIMARY) 1905-1978 (OVER-ALL) 1855-1978

AREA 0030 ANTOFAGASTA 22.15 71.6W

)	1855-1978	•						1	ABLE	17					22,15	71
	PCT	FREQ	OF	AIR T	EMPER	ATURÉ VS AI	(DEG R-SEA	F) AN	D THE	OCCU E DIF	RRENCE PERENCE	OF FOG	WITHOU	T PREC	IPETATE	ON)
	AIR-SFA	49 52	53 56	57 60	64	68	69	73 76	77 80	81 84	85 88	TOT	FOG	FOG		
	14/16	0000000000	.0	:0	.0	:	.:	.:	:	.1	.0	14	.0	:1		
	9/10	.0			.1	.1	.2	.1	. 1	•	.0	84		.7		
	7/6	.0			.i	: 1	.;		:1	,1	.0	142	.0	1.2		
	6	.0	.0	.1	. i	25,7	:4	.2 .3 .3 .5 .6 .7 .5	.1		:0	121	.0	1.1		
	5	.0		:1:2	.3	. 5	.4	. 3	.1	•	.0	195		1.7		
	4	.0		.1	.6	.7	.5	.3	.1 .2 .1 .1 .1		.0	280		2.4		
	3	.0		.2	. 8	1.1	.7	.3	.1	:0	.0	379		3.3		
	2	.0	. 2	1,2	1.8	1.7	1.1	.5	.2	.0	.0	693		6.1		
	1	.0	.1	1,2	2.4	2.2	1.2	.6	.1		.0	840		7.8		
	0		.3	3,1	4.9	3,3	1.0	.7	.1	•	.0	1605	.1	14.2		
	-1	.0	.3	3,8	4.3	3,2	2.0	.5		.0	.0	1585	•	14.0		
	-2		.6	4,5	4.6	3.4	2.2	:;			.0	1793	•	15.9		
	-3		.6	4,3	3.4	2.4	1.4	.,		000000	.0	1431		12.7		
	-4	.0	.5	2,5	2.5	1.0	1.0	.2		.0	.0	978	.0	8.6		
	-5			1.6	1.4	1.0	.7	.1	.0	.0	.0	586	•	5.1		
	-6		:3	.5	.6	:3	:3	.1	•	.0	.0	268	•	2.3		
	-7/-8		.3	.5	:6	. 3	.2		.0	.0	.0	187		1.6		
	-9/-10	.0		.1	.1	.1		.0	.0	.0	.0	38		.3		
	-11/-13	.0	.0					.0	.0	.0	.0		.0	.1		
	-14/-16 TOTAL	.0	•	.0	•	.0	.0	.0	.0	.0	.0	11314	.0	•		
	PCT	.1	3.6	23,3	28.6	22.0	14.9	5,2	1.3	.3	•	100.0	.3	**.7		

PERIOD: (DVER-4LL) 1963-1978

				PC	T FREQ	OF WIND	SPEED	(KTS)	AND DIRE	CTION V	ERSUS S	EA HETO	HTS (FT)	1	
				N								NE			
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2		.0	.0	.0			.2	.1		.0	.0	.0	PCT .3 .5
1-2	.2	.4		.0	.0	.0	000000000000000000000000000000000000000		.1	.4		.0	000000000000000000000000000000000000000	.00000000000000000000000000000000000000	. 5
3-4		.0		.0	.0	.0	.1		.0		.0	.0	.0	.0	
5-6	.0	.0		.0	.0	.0			.0		•	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0		.00.00	000000000000000000000000000000000000000	.0	•	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
12 13-16 17-19 20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
13-10	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	,0		.0	.0	.0	.0	.0	.0	.0
23-25 26-32 33-40 41-48 49-60	•0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• 0	.0	.0
41-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	••	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	• •	.0	.0
/1-80	.0	.0	.0	.0	.0	.0	• 0		.0	.0	.0	.0	.0	.0	.0
87+ TOT PCT	.0	.6	.0	.0	.0	.0			.3		.0	.0	.0	.0	
TUT PCT	••		• 1	.0	.0		1.1		,,		•	•			.,
												12-2			
HGT	1-2		11-21	F 22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	36-47	48+	PCT
<1	1-3	4-10	11-21	.0	.0					1.0	.1	.0			1.4
1-2			.1	.0	.0	.0	• 7			4.4	1.7	.0	.0	.0	***
3-4	• 0	.2	:1	.0	.0	:0				2.9	2.7		.0	.0	6.5
5-6	• •	.0	• •	.0	.0	.0			.0		1.9		•		3.1
3	• •				.0	.0			.0	• 7	1.7			.0	2.6 1.0 .2
7 8-9 10-11	.0				.0	.0	•		.0		i		.0	.0	1.0
10-11	.0	0	• 0	.0	.0	.0	. 0		.0	-0			.0	.0	
12	. 0	.0	• 0	.0	.0	.0	.0		.0	.0	-0		.0	.0	
12 13-16 17-19 20-22 23-25 26-32	.0		.00	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
17-19	-0	.0	.0	.0	.0	-0	.0		.0	.0	.0	.0	.0	.0	.0
20-22	-0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
33-40 41-48	.00000000000000000000000000000000000000	.0	.0	.0	.0	.0	.00000000000000000000000000000000000000		.0		.0	.2 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	000000000000000000000000000000000000000	.00	.0
A9-AD	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
61-70 71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	. 8	. 1		.0	.0	1.3		.8	8.8	7.3	.0	.0	.0	17.5

PERIODI	1045								ANNU	AL							
PERIOUI	(UVE)	K-ALL)	1963-1	1470				TABLE	18 (CONT)				AREA	22	ANTOFAC	.6W
				PC	T FREQ	OF WIND	SPEED					VERSUS	SEA HEIG	HTS (FT			
				s									22-33				
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10			34-47	48+		
<1	1.7	3.8	. 3	.0	.0	.0	5.8			.7	1.2		.0	:0	.0		
1-5	1.3	17.1	4.6	.0	.0	.0	23.0			.7	3.9		.0	.0	.0	5.0	
3-4	. 2	8.0	9.8	.3	.0	.0	18.3			.1	1.7			.0	.0	2.9	
5-6	.0	1.7	5.2	-4	.0	.0	7.3			:	.5	.4		.0	.0	1.0	
8-9	.0	.3	1.9	.6	.0	.0	1.0				.2			.0	.0	.3	
10-11	.0	.1	. 5	.2	:	.0	1.0			.0	.0			• •	.0	.1	
12	.0	.0	.2		.0	.0	:1			.0	.0	.0		• •	.0	.0	
13-16	.0	:0			.0	.0				.0	:0	.0		• 0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		000000000000000000000000000000000000000	.0		
20-22	.0	.0	.0	.0	.0	.0	:0			.0	.0		.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	:0			.0	:0	.0		.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0		.0		.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	• 0			.0	.0			.0	.0	.0	
41-48		.0	.0	.0	.0	.0	.0			.0	.0	.0		• 0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0			• 0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		• 0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	. 0			.0	.0		.0	.0	.0	.0	
TOT PCT	3.2	31.0	22.6	1.9	•	.0	58.7			1.6	7.3	2.2		.0	.0	11.3	
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.1	.0	.0	.0	.0	.2			.2					.0		
1-2	. 2	.6		.0	.0	.0	. 8			•	.4			.0	.0	.4	
3-4		.1		.0	.0	.0	.1			.0			.0	.0	.0	.1	
5-6	.0		.0	•0	.0	.0				.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	000000000000000000000000000000000000000	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
17-19	.0	.0	.0	• 0	.0	.0	.0			.0	.0			.0	.0	.0	
20-22	.0	.0	.0	•0	.0	.0	.0			.0	.0			.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
49-60	.0	.0	.0	•0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	•0	.0	.0	.0			.0	.0			.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0		.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0					.0	.0	- 0	.0	.0	
TOT PCT	.3	. 8	.1	.0	.0	.0	1.2			.0	:	• •	.0	.0	.0	.9	92.8

	MIND	SPEED	(KTS)	VS SEA	HEIGHT	(FT)		
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	11.9	6.7	.4	.0	.0	.0	19.1	
1-2	3.2	27.1	6.9	.0	.0	.0	37.2	
3-4	.4	12.7	13.6	,3	.0	.0	27.0	
5-6		2,6	7.5	.6	.0	.0	10.7	
7		. 6	2.7	, 9	.0	.0	4.2	
8-9	.0	.1	.7	.4		.0	1.2	
10-11	.0		.2	.2		.0		
12	.0	.0		.1	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0		.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0		.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0		.0	.0	
41-48	.0	.0	.0	.0		.0	.0	
49-60	.0	.0	.0	,0		.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0		.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
314			.0					4516
TOT PCT	15.6	49.8	32.0	2.5		.0	100.0	4240

PERIO	D: (DV	ER-ALL) 194	9-197					TABLE	19											
					PERCENT	FRE	QUENCY	OF WA	VE HEL	SHT (FT) VS	WAVE P	ERIDO	(SECON	0\$)						
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	3.0	8.6	12.2	5.7	1.5	.6	.2	.1	1		.0	.0	.0	.0	.0	.0	.0	.0	.0	2647	3
6-7	.1	1.6	7.2	10.7	4.8	1.9	1.1	. 3				.0	.0		.0	.0	.0	.0	.0	2315	5
8-9		. 8	3.1	5.4		2.4	1.2	.3		.1	.1			.0	.0	.0	.0	.0	.0	1555	
10-11	.0	.5	1.2	1.9	1.8	.9	.7	. 3		.0	.0	.0	.0		.0	.0	.0		.0	628	6
12-13	.0	.0	.6	.7	.6	.5	.2	. 3			.0		.0		.0	.0	.0		.0	247	7
>13	.0	.0	.0	.3	.4	.2	.1	.1		.0	.0		.0		.0	.0		.0	.0	108	
INDET	3.1	1.4	1.8	1.4		. 4	.2	• 1	·i	:0	•0		.0		.0	•0			.0	752	3
PCT	6.2	12.9	26.0	26.1	14.7	6.9	3.7	1.5	1.6	.1	.1			.0	.0	.0	.0	.0	.0	100.0	

			PERCE	NT FRE	BUENCY	OF DC	CURREN	CE OF	SEA TE	MP (DE	G F1 B	Y MONT	н	
EA THP DEG F	JAN	FEB	MAR	APR	MAY	JUN	INC	AUG	SEP	DCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	1	
83/84	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0		2	
81/82	.1	.1	;3	.0		.0	.0	.0	.0	.0	.0	•	17	
79/80	.1		,3	.1		.0	.0	.0	.0	.0			55	.1
77/78	1,2	2.7	7.6	.2	.1	.0	.0	•0	.0	.0		.1	264	.5
75/76	5,3	9.4	7.6	1.0		.0	.0	.0	.0	.0	.1	.9	1034	1.8
73/74	12.0	18.1	13,2	5.7	.4			•1			.4	4.0	2349	4.0
71/72	17.8	18.2	13,7	10.7	1.9	.2			.0	.1	1.8	9,4	3318	5.7
9/70	20.8	17.4	16.1	15.1	6.3	. 9	.1			.4	5.1	15,2	4472	7.6
7/68	21.9	15.4	16.3	19.5	10.6	5,0	.6	.2	.4	3.0	12.0	23.7	6356	10.9
5/66	12.6	9,2	12.0	17.7	21.0	14,2	3.9	2.0	2.2	7.9	20.8	21.3	7040	12.0
3/64	6.7	5.7	10.6	17.9	25.1	27.0	20.7	12.3	14.4	24.5	31.9	17.5	10765	18.4
61/62	1.0	2.4	5,1	8,2	15.2	22,5	28.9	24.4	23.6	30.3	18.5	5,5	9481	16.2
59/60	.4	.6	2.7	3.1	8.6	19.8	28.0	31.1	22.0	23.3	7.2	1.8	8064	13.8
57/58		- 1	.3		3,5	7.8	13.2	21.4	20.2	8.2	1.7	.3	3904	6.7
55/56	.1	.0			. 9	2.4	4.0	7.5	6.4	1.8	.3	.1	1170	2.0
53/54	.0			.1	.1	.1	.3	.7	.6	.3		.1	125	.2
51/52	.0	.0	.0	.0			.2	.2	.1	.1		.0	29	
49/50	.0			.0	.0			.1	.1		.1	.0	14	
47/48	.0	.0	.0	.0	.0	.0					.0	.0	5	
45/46	.0	.0	.0	.0	.0	,0	.0		.0	.0	.0	.0	2	
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	• 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	-0	- 0	.0	.0	.0	.0	.0	.0	.0	.0	.0	o	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
427	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	o	.0
TOTAL	4796	3698	4451	4173	4338	4408	5310	4556	5191	6248	5673	5625	58467	100.0
MEAN	69.3	70.2	8,80	66.8	64.2	62.1	60.7	59.8	60.0	61.5	64.1	66.8	64.5	

TABLE 21

					TABLE	21				
				PR	ESSURE	(MB)				
			AV	ERAGE	8Y HOU	R (GM	7)			
MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL
JAN	1013	1014	1014	1013	1014	1014	1014	1012	1014	2865
FEB	1013	1013	1014	1013	1014	1013	1014	1012	1013	2065
MAR	1013	1014	1014	1013	1014	1014	1014	1075	1014	2281
MAY	1014	1014	1015	1014	1015	1014	1015	1013	1015	2257
JUN	1017	1016	1017	1015	1017	1018	1017	1015	1016	2248
JUL	1017	1017	1018	1016	1018	1018	1017	1016	1017	3111
AUG	1017	1018	1018	1017	1018	1017	1017	1016	1017	2715
SEP	1017	1017	1017	1016	1018	1018	1017	1016	1017	2928
DCT	1016	1017	1017	1016	1017	1016	1017	1015	1017	3652
NOV	1015	1017	1016	1015	1017	1016	1016	1014	1010	3146
DEC	1014	1014	1014	1013	1015	1013	1019	1013	1014	2889
ANN	1015	1016	1016	2950	1016	1016	1016	1014	1019	32656
					••••					
				,	ERCENT	ires				
MO	MIN	12	58	25%	50%	758	95%	99%	MAX	
JAN	1005	1007	1010	1012	1014	1015	1017	1019	1020	
FEB	1005	1008	1010	1012	1013	1015	1017	1018	1021	
MAR	1007	1009	1010	1012	1014	1015	1017	1019	1053	
APR	1007	1010	1011	1013	1015	1019	1018	1020	1025	
MAY	1009	1011	1013	1012	1010	1017	1010	1021	1050	
JUN	1008	1011	1013	1015	1017	1018	1051	1023	1020	
AUG	1008	1012	1013	1015	1017	1019	1021	1023	1059	
SEP	1005	1011	1013	1015	1017	1019	1021	1023	1030	
DCT	1007	1011	1013	1015	1017	1018	1020	1023	1027	
NOV	1008	1010	1015	1014	1016	1017	1020	1021	1025	
DEC	1008	1009	1010	1013	1014	1016	1018	1019	1048	

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